

INDEX

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INDEX OF PATENTS

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¹ Includes 2 patents withdrawn.

1964 LIST OF PATENTEEES

This list includes reissue patentees

Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Errata

Previous Editions

In the "Index of Patents," vol. 1962, page 783, second column, line 13, under the heading "Owens-Illinois Glass Co.:" See—Continued", strike out "Marzocchi, Alfred and Rammel, 3,033,719," and insert the same on page 782, second column, between lines 2 and 3, from the bottom, under the heading "Owens-Corning Fiberglas Corp.:" See—".

In the "Index of Patents," vol. 1963, page 44, under the heading "Babcock & Wilcox Co., The" strike out "Wootton, William R. 3,089,836" and insert the same under the heading "Babcock & Wilcox Ltd."

In the same index, under the heading "Babcock & Wilcox Ltd." strike out the following patents:

De Mart, Le Roy S. 3,099,076.
De Mart, Le Roy S. 3,099,434.
Godshalk, Russell L. 3,099,467.
Hage, William T. 3,103,001.
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and insert the same under the heading "Babcock & Wilcox Co., The".

In the "Index of Patents," vol. 1963, page 714, first column, line 58, under the heading "Reynolds Metals Co.:" See— for "Gahlinger, Clarence J. 3,013,193" read Gahlinger, Clarence J. 3,103,193; same first column, between lines 49 and 50, insert Dale, Kenneth H. 3,115,419; same column, after line 86, insert Zouraff, Peter, and Forrest. 3,115,249.

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- Albrecht, James J., to International Minerals & Chemical Corp. Condiment composition and method of production. 3,118,771, 1-21-64, Cl. 99-140.
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- Albrecht, Otto, deceased, by V. Albrecht, administratrix, A. Berger, and W. Hofmann, to Ciba Ltd. Process for producing an antistatic finish on synthetic fibers. 3,154,429, 10-27-64, Cl. 117-139.5.
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- Albright, Lyle E., and R. Lee, to Purdue Research Foundation. Gamma radiation nitration of alkanes. 3,120,478, 2-4-64, Cl. 204-162.
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- Alderson, John M. Ram jet engine. 3,143,852, 8-11-64, Cl. 60-35.6.
- Alderson, William S., to Melpar, Inc. Moving target radar systems. 3,127,605, 3-31-64, Cl. 343-7.7.
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- Aldrich, Alvan C. Ceiling board jack. 3,143,219, 8-4-64, Cl. 214-1.
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- Aldrich, Lewis R., and J. L. Howard, said L. R. Aldrich assor. to said J. L. Howard. Safety cradle bed for vehicle and general use. 3,159,850, 12-8-64, Cl. 5-94.
- Aldrich, Paul E., to E. I. du Pont de Nemours and Co. Tri-fluoromethyl vinyl ether and its polymers. 3,162,622, 12-22-64, Cl. 260-87.5.
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- Aldrich, Robert H., to Hammond Machinery Builders, Inc. Dust collector and support for the bag thereof. 3,120,432, 2-4-64, Cl. 65-315.
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- Aldridge, Peter J., to The Magnavox Electronics Co. Ltd. Sound recording and reproducing apparatus. 3,130,889, 4-28-64, Cl. 226-178.
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- Aldria, Henry W., to Aktiebolaget Bofors. Hoist for rounds of ammunition. 3,139,798, 7-7-64, Cl. 89-46.
- Aldropp, Art. Hydraulic jet marine engine. 3,121,994, 2-25-64, Cl. 60-35.54.
- Alenius, Nils R. Continuous making of plywood. 3,133,850, 5-19-64, Cl. 156-558.
- Aler, Mary E., C. J. Butke, and H. R. Stopper, to The Drackett Co. Silver polish. 3,117,012, 1-7-64, Cl. 106-8.
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- Felbush, Alexander. 3,134,391.
- Alexander, Adolph P., to International Harvester Co. Ductile iron casting. 3,125,442, 3-17-64, Cl. 75-123.
- Alexander, Arthur, and H. W. Clements, to Parkinson Cowan Ltd. Register for gas meters. 3,140,607, 7-14-64, Cl. 73-272.
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- Alexander, Charles F. Jr., to Kiekhaefer Corp. Steering arrangement for inboard-outboard drive. 3,136,282, 6-9-64, Cl. 115-25.
- Alexander, Charles H., to United States Rubber Co. N-allyloxymethyl maleimide, and homopolymers and copolymers thereof. 3,151,182, 9-29-64, Cl. 260-45.4.
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- Alexander, David C.: See—
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- Alexander, David O., 25% to S. B. Wiczer. Underwater container assembly. 3,126,559, 3-31-64, Cl. 9-10.
- Alexander, Donald L. Sawtooth wave form generator employing monostable circuit to control reset. 3,124,706, 3-10-64, Cl. 307-88.5.
- Alexander, Doyle L.: See—
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- Alexander, Earl L., Jr., to E. I. du Pont de Nemours and Co. Stretching and heat crystallization of poly(metaphenylene isophthalamide) fibers. 3,133,138, 5-12-64, Cl. 264-290.
- Alexander, Focaneanu. Luminous high tension indicator. 3,124,712, 3-10-64, Cl. 313-202.

- Alexander, Ford I., deceased; R. L. Alexander, J. R. Ethridge, and J. B. Alexander, executors. Method and apparatus for making explosives in the place of use. 3,127,835, 4-7-64, Cl. 102-23.
- Alexander, Ford I. Method and apparatus for vibrating well pipe. 3,132,707, 5-12-64, Cl. 175-298.
- Alexander, Ford I., and I. C. Bechtold; said Bechtold assor. to said Alexander. Apparatus for sensing well pipe movement. 3,153,339, 10-20-64, Cl. 73-151.
- Alexander, Granison T., Jr., to Gem Oil Tool Co., Inc. Velocity joint and container. 3,149,671, 9-22-64, Cl. 166-21.
- Alexander, Guy B., and P. C. Yates, to E. I. du Pont de Nemours and Co. Process for producing a composite metal oxide particle in a colloidal aquasol. 3,129,093, 4-14-64, Cl. 75-5.
- Alexander, Guy B., W. H. Pasfield, and P. C. Yates, to E. I. du Pont de Nemours and Co. Process of incorporating a refractory metal oxide in a metal and product resulting therefrom. 3,150,443, 9-29-64, Cl. 29-182.5.
- Alexander, Guy B., and P. C. Yates, to E. I. du Pont de Nemours and Co. Metal composition. 3,152,389, 10-13-64, Cl. 29-182.5.
- Alexander, Harold N. Method and apparatus for forming full color viewing photographic image. 3,142,563, 7-28-64, Cl. 96-2.
- Alexander, Irene: See—
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- Alexander, Irving H., to The Bunker-Ramo Corp. Control device. 3,158,317, 11-24-64, Cl. 235-145.
- Alexander, James B.: See—
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- Alexander, James W.: See—
Crandall, A. Ralph, and Alexander. 3,119,146.
- Alexander, James W., and C. L. Davis, to Phillips Petroleum Co. Agglomeration of fine rubber particles. 3,131,160, 4-28-64, Cl. 260-33.6.
- Alexander, John D.: See—
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- Martin, William L., Alexander, and Dew. 3,121,462.
- Alexander, Lester F.: See—
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- Alexander, Paul, deceased (I. Alexander, executrix), to Continental Can Co., Inc. Floating roller seal. 3,158,507, 11-24-64, Cl. 118-49.
- Alexander, Reginald A., and H. H. Olson, to Radio Corp. of America. Test pointer extender for circuit boards. 3,147,054, 9-1-64, Cl. 339-17.
- Alexander, Rexford G., Jr., to Burroughs Corp. Thin film magnetic storage. 3,154,765, 10-27-64, Cl. 340-174.
- Alexander, Robert C. Apparatus for securing the free terminal end of a roll of rolled paper. 3,134,706, 5-26-64, Cl. 156-357.
- Alexander, Robert C. Rolled paper and method of securing the free end thereof. 3,134,980, 5-26-64, Cl. 156-220.
- Alexander, Robert W., to Simplex Wire and Cable Co. Method of forming a composite conductor. 3,154,846, 11-3-64, Cl. 29-470.5.
- Alexander, Ross D.: See—
Alexander, William E., and Alexander. 3,134,484.
- Alexander, Roy P.: See—
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- Ottmann, Gerhard F., Alexander, and Koher. 3,157,638.
- Alexander, Roy P., and T. L. Heying, to Olin Mathieson Chemical Corp. Organoboron alcohols and method for their preparation. 3,158,655, 11-24-64, Cl. 260-606.5.
- Alexander, Roy P., and T. L. Heying, to Olin Mathieson Chemical Corp. Organoboron alcohols and their preparation. 3,158,656, 11-24-64, Cl. 260-606.5.
- Alexander, Ruth L.: See—
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- Alexander, Thomas E., and W. F. Nelson, to Koehring Co. Automatic fill-up and cementing devices for well pipes. 3,130,789, 4-28-64, Cl. 166-224.
- Alexander, Warren A., to Jersey Production Research Co. Seismic section correction device. 3,143,055, 8-4-64, Cl. 95-73.
- Alexander, Warren A., and W. J. Stark, to Jersey Production Research Co. Migrator for geophysical exploration. 3,127,585, 3-31-64, Cl. 340-15.5.
- Alexander, Warren A., D. J. Robinson, and D. L. Lighthizer, to Jersey Production Research Co. Seismic system. 3,158,433, 11-24-64, Cl. 346-110.
- Alexander, William G., to General Dynamics Corp. Storage apparatus. 3,121,861, 2-18-64, Cl. 340-173.
- Alexander, William L., to Mayday, Inc. Automatic vending machine. 3,143,198, 8-4-64, Cl. 194-15.
- Alexander, Lester F.: See—
Leclerc, John T., and Alexander. 3,117,435.
- Alexander, Ernst F. W. Electric motor control system. 3,119,957, 1-28-64, Cl. 318-257.
- Alexandersson, Harald V., to Telefonaktiebolaget L. M. Ericsson. Electrical contact means in wire springs. 3,133,177, 5-12-64, Cl. 200-166.
- Alexandersson, Harald V., E. A. Ericsson, and S. E. E. Johansson, to Ericsson, L. M. Telefonaktiebolaget. Main exchange for automatic connecting devices. 3,118,021, 1-14-64, Cl. 179-91.
- Alexandersson, Harald V., K. G. Brunberg, and R. A. Dahlblom, to Telefonaktiebolaget L. M. Ericsson. Circuit arrangement for operation of a satellite exchange in an automatic telephone system. 3,140,354, 7-7-64, Cl. 179-18.
- Alexandersson, Harald V., S. E. V. Johannesson, and J. P. Savharju, to Telefonaktiebolaget L. M. Ericsson. Distribution frame. 3,156,783, 11-10-64, Cl. 179-98.
- Alexandre, Albert M. C. Process for manufacturing crepe fabrics with multifilament textile yarns of synthetic origin. 3,157,982, 11-24-64, Cl. 57-157.
- Alexandru, Kovendi: See—
Anton, Balogh, Alexandru, Dumitru, and Elena. 3,117,995.
- Alexeff, Alexander V.: See—
Snyder, Harvey, Alexeff, and Richards. 3,156,396.
- Alexeff, Alexander V., and H. R. Richards, to Industrial Owens, Inc. Web and strand treating apparatus. 3,124,429, 3-10-64, Cl. 34-48.
- Alexeff, Alexander V., H. R. Richards, and M. Zobenica, to Industrial Owens Inc. Means for continuously treating strip. 3,152,794, 10-13-64, Cl. 263-3.
- Alf, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft and Allgemeine Elektrizitäts-Gesellschaft. Induction heating apparatus. 3,133,185, 5-12-64, Cl. 219-10.61.
- Alfa Romeo S.p.A.: See—
Colucci, Ivo. 3,151,224.
- Alfas, John A., to General Motors Corp. Wheel mounted stone ejector. 3,135,559, 6-2-64, Cl. 301-63.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Hydraulic transmission devices for elimination of deterioration of the seal gasket of hydraulic pump pistons. 3,120,104, 2-4-64, Cl. 60-54.5.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Articulated parallelogram supporting device for supporting blades or similar parts in automotive vehicle wipers. 3,128,490, 4-14-64, Cl. 15-250.25.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Device for braking either rear wheel of a vehicle when taking a curve. 3,129,035, 4-14-64, Cl. 303-6.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Antifreeze apparatuses for compressed air systems, particularly used on vehicles. 3,129,267, 4-14-64, Cl. 261-99.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Compressors for compressed air systems particularly used on vehicles. 3,130,901, 4-28-64, Cl. 230-187.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Fluid pressure piston actuator. 3,139,762, 7-7-64, Cl. 74-110.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Servo actuatable leveler for controlling pneumatic suspension systems for vehicles. 3,140,725, 7-14-64, Cl. 137-550.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Anti-backlash anti-friction bearing assembly. 3,147,049, 9-1-64, Cl. 308-174.
- Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Leveling device for a pneumatic suspension. 3,157,413, 11-17-64, Cl. 280-124.
- Alfieri, Giuseppe, and R. Moriondo, to Fabbbrica Italiana Magneti Marelli S.p.A. Device for exhausting the air springs of vehicle pneumatic mechanical suspension systems to the outer atmosphere. 3,121,573, 2-18-64, Cl. 280-6.
- Alfille, Lucien, and J. Ropers, to Commissariat a l'Energie Atomique. Nuclear fuel cartridge. 3,118,819, 1-21-64, Cl. 174-79.
- Alfonso V. Diaz, Gabriel. Folding bed and canopy support. 3,147,497, 9-8-64, Cl. 5-362.
- Alford, Andrew: See—
Leach, Harold H. 3,118,119.
- Russell, Lindsay. 3,145,352.
- Alford, Andrew. Impedance matching filter. 3,132,313, 5-5-64, Cl. 333-32.
- Alford, Andrew. High frequency measuring system including automatic oscillator amplitude control means. 3,162,807, 12-22-64, Cl. 324-68.
- Alford Cartons Division, Continental Paper Co.: See—
Ricca, Anton. 3,128,935.
- Alford, Harvey E.: See—
Veatch, Franklin, Alford, and Croft. 3,129,086.
- Alford, Harvey E., and F. Veatch, to The Standard Oil Co. Lightweight structural unit. Re. 25,564, 4-28-64, Cl. 161-168.
- Alford, Harvey E., and F. Veatch, to The Standard Oil Co. Method of making silica insulating material. 3,133,821, 5-19-64, Cl. 106-40.
- Alford, James C. Measuring and marking device. 3,145,475, 8-25-64, Cl. 33-41.
- Alfred Electronics: See—
Kruse, Fred W., Jr. 3,160,808.
- Kruse, Frederick W., Jr., and Britton. 3,145,351.
- Kruse, Frederick W., Jr., and Wambersans. 3,121,848.
- Alfred, Marc. Control device for control and safety rods for nuclear reactors. 3,152,960, 10-13-64, Cl. 176-30.
- Alfrey, Norval K.: See—
Bridger, Grover L., and Alfrey. 3,124,159.
- Bridger, Grover L., and Alfrey. 3,125,411.
- Alfrey, Norval K., and G. L. Bridger, to W. R. Grace & Co. Fertilizer manufacture. 3,125,435, 3-17-64, Cl. 71-64.
- Alfrey, Turner, Jr.: See—
Schrenk, Walter J., Chisholm, and Alfrey. 3,131,910.
- Schrenk, Walter J., Cleereman, and Alfrey. 3,127,152.
- Schrenk, Walter J., Cleereman, and Alfrey. 3,130,959.
- Algett, George E., and W. G. Otto, to Western Electric Co., Inc. Lamp finishing bars. 3,117,776, 1-14-64, Cl. 269-254.
- Algemene Kunstzijde Unie N.V.: See—
Beunkes, Teunis. 3,122,768.
- Maaskant, Leendert. 3,137,033.
- Noordenbos, Pieter K. 3,123,969.

- Alger, John R. M., to General Electric Co. Washing machine fill control. 3,153,924, 10-27-64, Cl. 68-12.
- Albertière, Louis, to Les Usines de Melle (Société Anonyme). Process for producing acetic anhydride. 3,119,862, 1-28-64, Cl. 260-546.
- Allicot, Marie-Joseph J., and R. F. M. Sureau, to Compagnie Française des Matières Colorantes. Quaternized dyestuffs. 3,153,031, 10-13-64, Cl. 260-145.
- Allyn Association Inc.: See—
- Schoell, Harry L. 3,117,544.
- Allmanestiano, Constantino, to Smaltel, Inc. Portable lay-over unit. 3,118,187, 1-21-64, Cl. 20-2.
- Alinari, Carlo. Indicating instrument for divers. 3,121,333, 2-18-64, Cl. 73-111.
- Alinat, Jean A.: See—
- Cousteau, Jacques Y., Gagnan, and Alinat. 3,131,406.
- Ali-Oglu, Nesli, to Bird & Son, Inc. Carton assembling machine. 3,134,308, 5-26-64, Cl. 93-37.
- Alkirk, Inc.: See—
- Christopher, Albert J. 3,128,982.
- Lawrence, James C. 3,141,510.
- All Products Co.: See—
- Dunlavy, John H., Jr. 3,129,427.
- Allais, André: See—
- Warnant, Julien, Jolly, Allais, and Girault. 3,156,713.
- Allais, André, and P. Girault, to Roussel-UCLAF, S.A. 4-(3'-hydroxy-4'-carboxy-phenylamino)-7-chloroquinolines, and esters and salt thereof. 3,132,145, 5-5-64, Cl. 260-286.
- Allais, André, and P. Girault, to Roussel-UCLAF, S.A. Analog of 10-methoxy deserpidine and its preparation. 3,132,146, 5-5-64, Cl. 260-287.
- Allais, André, and P. Girault, to Roussel-UCLAF, S.A. 4-[2'-(8-dimethylaminoethoxycarbonyl)-phenyl-amino]-7-chloroquinoline and its acid addition salts. 3,150,047, 9-22-64, Cl. 167-65.
- Allais, André, and P. Girault, to Roussel-UCLAF, S.A. 4-[2'-(8-morpholyloethoxycarbonyl)-phenylamino]-7-chloroquinoline. 3,151,026, 9-29-64, Cl. 167-65.
- All American Engineering Co.: See—
- Cotton, Robert B. 3,140,845.
- Cotton, Robert B. 3,158,343.
- Daniels, Charles J., Smith, and Harbin. 3,159,923.
- Doolittle, Donald B. 3,140,761.
- Doolittle, Donald B. 3,160,371.
- Green, Howard S. 3,153,341.
- Trifillis, William E. 3,139,249.
- Allan, Earl E., to Westinghouse Air Brake Co. Conversion brake cylinder. 3,152,516, 10-13-64, Cl. 91-189.
- Allan, Earl E., to Westinghouse Air Brake Co. Manually operable slack adjuster for vehicle brakes. 3,158,235, 11-24-64, Cl. 183-197.
- Allan, George G., to E. I. du Pont de Nemours and Co. Oxidation process. 3,156,709, 11-10-64, Cl. 260-348.5.
- Allan, John H., and G. W. Lee, to Pacific Resins & Chemicals, Inc. Method of reducing the water solubility of blood solids for adhesive use by steam treatment. 3,123,593, 3-3-64, Cl. 260-112.
- Allan, Michael B., to Dominion Engineering Works Ltd. Kaplan turbines. 3,138,362, 6-23-64, Cl. 253-31.
- Allan, Stewart, to Union Carbide Corp. Thermochemical metal removal apparatus. 3,119,409, 1-28-64, Cl. 137-488.
- Allan, William J., and W. W. Webb, to Union Carbide Corp. Process for production of long metallic whiskers using a polycrystalline copper substrate. 3,144,358, 8-11-64, Cl. 145-16.
- Allander, Claes, to Aktiebolaget Svenska Flaktfabriken. Method for threading the leading end of a weblike material and a device for carrying out the method. 3,127,079, 3-31-64, Cl. 226-92.
- Allander, Claes, to Svenska Flaktfabriken, Aktiebolaget. Air-conditioning arrangement for operating rooms. 3,150,584, 9-29-64, Cl. 98-33.
- Allander, Claes, and J. M. Eneroth, to Aktiebolaget Svenska Flaktfabriken. Web turning device. 3,127,080, 3-31-64, Cl. 226-97.
- Allard, Adrien C., to Societe a Responsabilite Limitee; Allard & Fils. Cardboard tray for fruit. 3,118,591, 1-21-64, Cl. 229-34.
- Allard, Eugene R.: See—
- Eoklin, Dave, Allard, Anderson, and Lovasz. 3,147,173.
- Allard, Ingrid J. C.: See—
- Karlstrom, Karl A. S., Östberg, Allard, and Östberg. 3,138,366.
- Allard, Marc, to Institut de Recherches de la Siderurgie Française. Exhaust for steel converter. 3,154,406, 10-27-64, Cl. 75-60.
- Allard, Marc, and B. Trentini, to Institut de Recherches de la Siderurgie. Method and apparatus for measuring the output of a pulverulent material suspended in fluid. 3,127,770, 4-7-64, Cl. 73-194.
- Allard, Pierre J. M. T. Shovelling and loading machine. 3,127,038, 3-31-64, Cl. 214-90.
- Allard, Pierre J. M. T. Multiple use freight vehicle. 3,132,600, 5-12-64, Cl. 105-262.
- Allardt, Ernst W., E. M. Juhn, and E. Abbonizio, to The Babcock & Wilcox Co. Flexible welding electrodes. 3,153,718, 10-20-64, Cl. 219-65.
- Allbeson, Ernest N., to The Brightside Foundry & Engineering Co. Ltd. Apparatus for the mechanical handling of billets and the like. 3,130,830, 4-28-64, Cl. 198-219.
- Alldis, Harold H. Registration punch. 3,152,505, 10-13-64, Cl. 83-468.
- Allegany Instrument Co., Inc.: See—
- Minke, Charles M. 3,144,776.
- Allegemeine Elektrizitäts Gesellschaft Schiffbau: See—
- Mitchell, Colin C. 3,125,037.
- Allegheny Ludlum Steel Corp.: See—
- Beattie, Clifford G., and Gumbert. 3,149,439.
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- Conner, Jesse R., Jr. 3,125,471.
- Eckel, Robert D., and Schaefer. 3,121,779.
- Graziano, Anthony F. 3,139,358.
- Hilliard, Glenn E., and Mainwaring. 3,132,854.
- Hunt, Joseph M. 3,155,461.
- Laine, Edward A. 3,139,024.
- Lula, Remus A., Ferree, and McCunn. 3,152,934.
- Malagari, Frank A., Jr. 3,148,979.
- McLay, Alexander, and Weremeychik. 3,162,069.
- Murland, James H., Jr. 3,140,545.
- Perry, Paul E., Miller, and Piasecki. 3,138,492.
- Reen, Orville W. 3,150,444.
- Weremeychik, Eugene A., and Murland. 3,121,354.
- Werthman, John H. 3,138,981.
- Allegretti, Albert J. Lawn trimmer and edger. 3,130,793, 4-28-64, Cl. 172-15.
- Allegretti, John E., and J. L. Waldman, to Merck & Co., Inc. Semiconductor process. 3,125,533, 3-17-64, Cl. 252-62.3.
- Allegri, Renato: See—
- Noble, Luciano, Allegri, and Poma. 3,132,051.
- Alleman, Ronald D. Animation device. 3,144,726, 8-18-64, Cl. 40-81.
- Alleman, Hugo, to Etablissement Alleman. Workpiece holder table arrangement. 3,139,177, 6-30-64, Cl. 198-210.
- Allen, Abbott, to United States of America, Atomic Energy Commission. Reactor and apparatus for control thereof. 3,162,578, 12-22-64, Cl. 176-36.
- Allen, Alaric, to A. C. Cossor Ltd. Secondary radar systems. 3,155,966, 11-3-64, Cl. 343-6.8.
- Allen, Alford E., to General Electric Co. Toroidal deflection yoke winding. 3,117,258, 1-7-64, Cl. 317-200.
- Allen, Arthur C.: See—
- Bickler, Donald B., Allen, and Hosking. 3,136,613.
- Allen, Arthur C., to Stewart-Warner Corp. Speed governor. 3,146,594, 9-1-64, Cl. 60-52.
- Allen, Arthur F., to Rolls-Royce Ltd. Machine tool control apparatus. 3,142,214, 7-28-64, Cl. 82-14.
- Allen-Bradley Co.: See—
- De Smidt, Woodrow A. 3,144,293.
- De Smidt, Woodrow A. 3,158,703.
- De Smidt, Woodrow A., and Zarwell. 3,156,790.
- Hansen, Robert V. 3,136,033.
- Haydu, John L., and Lawrence. 3,149,210.
- Kniel, Wolfgang E., and Zaffrann. 3,121,826.
- Lawrence, Leland E. 3,134,869.
- Moser, Joseph R., Struger, and Schattellner. 3,127,546.
- Pfister, Anthony C. 3,155,935.
- Wruck, Quayne L. 3,121,834.
- Allen, Charles F. II., and W. J. Humphlett, to Eastman Kodak Co. Continuous process for polymerizing bisphenols and phosgene. 3,133,044, 5-12-64, Cl. 260-47.
- Allen, Charles L., and A. R. Taylor, to Dynamics Corp. of America. Negative ion generator using an ultraviolet source to irradiate electrically conductive material. 3,128,378, 4-7-64, Cl. 250-43.
- Allen, Charles M.: See—
- Gelger, Russell C., and Allen. 3,126,098.
- Allen, Charles S., Jr. Air ring gun. 3,117,567, 1-14-64, Cl. 124-1.
- Allen, Claude V., to The Inta-Roto Machine Co., Inc. Butt splicer. 3,161,368, 12-15-64, Cl. 242-58.4.
- Allen, Clayton M. Protective cover for plants. 3,140,563, 7-14-64, Cl. 47-20.
- Allen, Clifford R. Swinging frame contour wire saw. 3,158,146, 11-24-64, Cl. 125-21.
- Allen, Daniel E., H. E. Allen, and S. E. Allen. Demountable truck body. 3,138,276, 6-23-64, Cl. 214-503.
- Allen, Darrell E., and J. A. Wold, to Apparel, Inc. Reversible garment. 3,147,490, 9-8-64, Cl. 2-84.
- Allen, Delbert R., and F. V. Brosselt, to Western Electric Co., Inc. Punch and die for presses. 3,119,293, 1-28-64, Cl. 83-131.
- Allen, Dewar L., and J. W. O'Malley. Shipping means. 3,159,930, 12-8-64, Cl. 40-2.
- Allen, Dwight L., to Latex Industries, Inc. Needle plug guide for catheter. 3,138,161, 6-23-64, Cl. 128-348.
- Allen, Edward L., and A. F. Gattiker, Jr., to Ingersoll-Rand Co. Rotary power hammer. 3,161,241, 12-15-64, Cl. 173-47.
- Allen, Edwin L.: See—
- Kirk, Joseph R., Allen, and Johnson. 3,163,445.
- Allen Electric Co., Inc.: See—
- Peterson, Norman L., and Allen. 3,133,233.
- Allen Electronics, Inc.: See—
- Christine, William C., and Pierce. 3,133,671.
- Allen, Eric H. W., to George Kent Ltd. Liquid flow meter. 3,137,167, 6-16-64, Cl. 73-277.
- Allen, Frank D.: See—
- Sagal, John, Jr., and Allen. 3,128,187.
- Allen, Gordon W.: See—
- Johnson, Stephen W., Jr., Harford, and Allen. 3,145,634.

- Allen, Grady B.: See—
- Peterson, Norman L., and Allen. 3,133,233.
- Allen, Harold E.: See—
- Allen, Daniel E., H. E., and S. E. 3,138,276.
- Allen-Harper, Inc.: See—
- Allen, Kenneth M., and Harper. 3,122,930.
- Allen, Kenneth M., and Harper. 3,137,529.
- Allen, Kenneth M., and Harper. 3,152,650.
- Allen, Herbert, to Cameron Iron Works, Inc. Accumulator and charging means therefor. 3,131,721, 5-5-64, Cl. 137-568.
- Allen, Herbert, to Cameron Iron Works, Inc. Valve apparatus for use as a blowout preventer or the like. 3,132,662, 5-12-64, Cl. 137-315.
- Allen, Herbert, to Cameron Iron Works, Inc. Ball valve. 3,157,190, 11-17-64, Cl. 137-330.
- Allen, Herbert, and J. V. Pennington, to Cameron Iron Works, Inc. Ball valve with a reinforced and deformable valve seat. 3,118,649, 1-21-64, Cl. 251-309.
- Allen, Howard G., to Bostitch, Inc. Method of making by-pass die. 3,142,204, 7-28-64, Cl. 76-101.
- Allen, Howard G., and E. I. Fisher, to Bostitch, Inc. Fastener applying machine. 3,162,097, 12-22-64, Cl. 91-399.
- Allen Industries, Inc.: See—
- Goldstone, Edward G. 3,146,150.
- Allen, Irving C., D. Nepper, and F. E. Oehme, to Consolidated Papers, Inc. Apparatus for testing certain characteristics of paper and the like. 3,129,586, 4-21-64, Cl. 73-159.
- Allen, Ivis J., to Ford Motor Co. Element for eddy current devices. 3,128,401, 4-7-64, Cl. 310-106.
- Allen, James B.: See—
- West, Charles F., and Allen. 3,157,115.
- Allen, James B. Terminal board assembly. 3,131,330, 4-28-64, Cl. 317-99.
- Allen, Jerry R., and D. M. Krause, to Cosden Oil & Chemical Co. Reactor and method for polymerizing olefins. 3,119,884, 1-28-64, Cl. 260-683.15.
- Allen, John D., and R. G. Holt, to Fawick Corp. Flow regulating valve with extended movement. 3,120,243, 2-4-64, Cl. 137-504.
- Allen, John D., and R. G. Holt, to Fawick Corp. Demand type flow divider. 3,125,110, 3-17-64, Cl. 137-101.
- Allen, John D., and D. A. Strempel, to Fawick Corp. Flow control valve. 3,129,720, 4-21-64, Cl. 137-490.
- Allen, John W., to Stanray Corp. Container for transporting thermally hot intensely radioactive material. 3,119,933, 1-28-64, Cl. 250-108.
- Allen, John W., to Stanray Corp. Apparatus utilizing liquid metal coolant for transporting thermally hot intensely radioactive material. 3,133,197, 5-12-64, Cl. 250-106.
- Allen, John W., and R. A. Nance, to The Budd Co. Electromagnetic testing apparatus having a rotating apertured cylinder for spirally scanning cylindrical workpieces. 3,152,302, 10-6-64, Cl. 324-34.
- Allen, Joseph C., to Texaco Inc. Producing petroleum from a subsurface formation. 3,120,265, 2-4-64, Cl. 166-42.
- Allen, Joseph G., and E. W. Malmberg, to Sun Oil Co. Preparation of naphthalene and 2,6-dimethylnaphthalene. 3,153,676, 10-20-64, Cl. 260-668.
- Allen, Joseph M., and E. L. Miner. Two-wheeled utility vehicle having a driven steering wheel. 3,155,185, 11-8-64, Cl. 180-31.
- Allen, Joseph S. Delay apparatus and method employing electron stream. 3,161,801, 12-15-64, Cl. 315-39.3.
- Allen, Kenneth C., to The Hobart Mfg. Co. Weighing scales. 3,120,287, 2-4-64, Cl. 177-5.
- Allen, Kenneth C., to The Hobart Mfg. Co. Scale. 3,139,612, 6-30-64, Cl. 340-347.
- Allen, Kenneth C., to The Hobart Mfg. Co. Ticket issuer. 3,153,361, 10-20-64, Cl. 83-203.
- Allen, Kenneth C., and D. A. Meeker, to The Hobart Mfg. Co. Recording scale. 3,141,514, 7-21-64, Cl. 177-3.
- Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Vibrating mechanism and unbalancing rotor. 3,122,930, 3-3-64, Cl. 74-87.
- Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Modulating feeder for transferring discrete materials from a primary conveyor to a secondary conveyor. 3,137,529, 6-16-64, Cl. 302-42.
- Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Magnetic scale apparatus. 3,152,655, 10-13-64, Cl. 177-52.
- Allen, Kenneth W., to United Kingdom Atomic Energy Authority. Nuclear fusion method. 3,152,958, 10-13-64, Cl. 176-1.
- Allen, Kimball W. Shoeshine machine with pad dispensing means. 3,145,403, 8-25-64, Cl. 15-4.
- Allen, Lawrence D.: See—
- Allen, Lewis N., and L. D., and Robinson. 3,153,310.
- Allen, Leslie, to Davy and United Engineering Co. Ltd. Roll adjusting gear for rolling mills and like applications. 3,147,650, 9-8-64, Cl. 80-56.
- Allen, Leslie J., E. J. Lorenz, and W. J. Richardson, to International Business Machines Corp. Electronic packaging device. 3,162,788, 12-22-64, Cl. 317-101.
- Allen, Lewis N., and L. D., and W. B. Robinson. Hinged adjustable support wheel for mowers. 3,153,310, 10-20-64, Cl. 56-322.
- Allen, Lloyd R., to National Research Corp. Process for the extrusion of fine wire. 3,145,842, 8-25-64, Cl. 207-10.
- Allen, Lloyd R., to National Research Corp. Process of extruding ultrafine wire. 3,145,843, 8-25-64, Cl. 207-10.
- Allen, Lloyd R., to National Research Corp. Tin base alloys. 3,146,097, 8-25-64, Cl. 75-175.
- Allen, Merrill J., to R. O. Guiden. Tonometer. 3,136,152, 6-9-64, Cl. 73-80.
- Allen, Milton J., to Cliba Corp. 2-pyridyl-indenes. 3,118,895, 1-21-64, Cl. 260-290.
- Allen, Oliver L., J. J. Moughty, and W. A. Ross, to Elextrolux Corp. Surface treating devices. 3,121,896, 2-25-64, Cl. 15-50.
- Allen, Opal: See—
- Petermann, Ursula A., and Allen. 3,128,470.
- Allen Organ Co.: See—
- Markowitz, Jerome. 3,125,180.
- Allen, Paul M., to Armco Steel Corp. Method for bonding metals. 3,133,346, 5-19-64, Cl. 29-470.9.
- Allen, Philip H.: See—
- Chromy, Benjamin J., and Allen. Re. 25,621.
- Allen, Philip H., to H.J.J. Co. Screw-holding screw driver. 3,150,699, 9-29-64, Cl. 145-50.
- Allen, Philip J. Microwave polarization resolver. 3,142,061, 7-21-64, Cl. 343-100.
- Allen, Philip J. Re-radiating antenna device. 3,154,784, 10-27-64, Cl. 343-18.
- Allen, Ralph G. Projection screen device with vertically adjustable detachable legs. 3,134,299, 5-26-64, Cl. 88-24.
- Allen, Richard E., to Corning Glass Works. Method of bonding absorbing material to a delay line. 3,131,459, 5-5-64, Cl. 29-155.5.
- Allen, Richard E., to Corning Glass Works. Method of bonding a crystal to a delay line. 3,131,460, 5-5-64, Cl. 29-155.5.
- Allen, Robert, to Northern Electric Co. Ltd. Electrical pulse producing apparatus. 3,159,732, 12-1-64, Cl. 200-153.
- Allen, Robert E.: See—
- Palopoli, Frank P., Benson, Allen, and Schumann. 3,133,745.
- Palopoli, Frank P., Benson, Allen, and Schumann. 3,150,144.
- Allen, Robert E., to Cutter Laboratories, Inc. Pyridopyrimidinone compounds. 3,149,112, 9-15-64, Cl. 260-250.4.
- Allen, Robert L., to Georgia Tech Research Institute. Control device. 3,153,946, 10-27-64, Cl. 74-479.
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- Anderson, Andrew P. Vertically arranged apparatus for the washing and drying of dishes and the like. 3,132,655, 5-12-64, Cl. 134-68.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Closure mechanism for food tray covers. 3,116,580, 1-7-64, Cl. 53-329.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Package boxing mechanism. 3,125,841, 3-24-64, Cl. 53-228.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Compressing mechanism for food trays. 3,138,906, 6-30-64, Cl. 53-124.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Wrapper sheet. 3,141,602, 7-21-64, Cl. 229-87.
- Anderson, Arthur C., to A. C. Anderson, Inc. Earth loader. 3,133,653, 5-19-64, Cl. 214-140.
- Anderson, Arthur I., and K. Konicsek, to Butler Mfg. Co. Pneumatic bulk trailer. 3,152,842, 10-13-64, Cl. 302-53.
- Anderson, Arthur R., T. M. Stickney, and D. W. Gordon, to Cook Electric Co. High temperature measuring probe. 3,131,562, 5-5-64, Cl. 73-362.
- Anderson, Arvin D.: See—
- Burk, Emmett H., Jr., Erickson, and Anderson. 3,122,510.
- Forster, Robert L., Anderson, and Gallagher. 3,151,059.
- Sanford, Robert A., and Anderson. 3,151,088.
- Anderson, Arvin D., to Sinclair Research, Inc. Method for removing vanadium and nickel from a silica based catalyst. 3,150,103, 9-22-64, Cl. 252-412.
- Anderson, Arvin D., and R. A. Sanford, to Sinclair Research, Inc. Pretreatment and cracking of residual oils. 3,162,596, 12-22-64, Cl. 208-89.
- Anderson, Axel, to Sundstrand Corp. Article applying machine. 3,117,690, 1-14-64, Cl. 218-2.
- Anderson, Axel F. L., to American Radiator & Standard Sanitary Corp. Fluid drive for oil well drilling draw works. 3,130,824, 4-28-64, Cl. 192-3.2.
- Anderson, Axel F. L., and P. A. Weller, to American Radiator & Standard Sanitary Corp. Liquid refrigerant cooling of hermetic motors. 3,149,478, 9-22-64, Cl. 62-469.
- Anderson, Burton C., and M. I. Kohan, to E. I. du Pont de Nemours and Co. Process for the anionic polymerization of caprolactam with benzimidazole compounds as activators. 3,138,576, 6-23-64, Cl. 260-78.
- Anderson, Carl A. Life saving wadders. 3,154,800, 11-3-64, Cl. 9-343.
- Anderson, Carl C., Jr.: See—
- Luce, Vincent D. S.: 3,158,485.
- Anderson, Carl C., Sr.: See—
- Luce, Vincent D. S.: 3,158,485.
- Anderson, Carl D. Articulated conveyor. 3,135,374, 6-2-64, Cl. 198-109.
- Anderson, Carl J.: See—
- Smith, Charles D., and Anderson. 3,127,983.
- Anderson, Carl P.: See—
- Kleinschmidt, Edward F., and Anderson. Re. 25,654.
- Anderson, Charles C., and R. B. Rinehart, to Cannon Electric Co. Electrical contact socket, and apparatus and method for making the same. 3,123,429, 3-3-64, Cl. 339-258.
- Anderson, Charles E., and N. Lasarev, to Ampex Corp. Rotating head switcher. 3,117,188, 1-7-64, Cl. 179-100.2.
- Anderson, Charles H., to United States Projector and Electronics Corp. Film gate and advancing apparatus. 3,124,039, 3-10-64, Cl. 88-28.
- Anderson, Charles H., to United States Projector & Electronics Corp. Photocopy machine. 3,147,665, 9-8-64, Cl. 88-24.
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- Bongiovanni, John C., Hill, Whitacre, and Anderson. 3,128,958.
- Anderson, Christian, to Yankee Atomic Electric Co. Friction wrench. 3,124,984, 3-17-64, Cl. 81-64.
- Anderson, Clayton, and Co.: See—
- Ezzell, Luther F.: 3,124,384.
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- Jones, Lorenz B.: 3,122,252.
- Roots, Logan C.: 3,122,422.
- Sinclair, Alfred C., and S. W.: 3,131,626.
- Sinclair, Stuart W.: 3,122,080.
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- Anderson, Cleophas E., and G. G. Pins, to Thermolyne Corp. Magnetic stirring device. 3,138,370, 6-23-64, Cl. 259-108.
- Anderson, Clifford E., to ACF Industries, Inc. Control unit. 3,157,030, 11-17-64, Cl. 60-52.
- Anderson, Clifford E., and J. T. Stewart, Jr., to ACF Industries, Inc. Spherical plug valve having pressurized seats including body pressure relief means. 3,122,352, 2-25-64, Cl. 251-172.

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- Krohm, Fred A.: 3,122,770.
- Krohm, Fred A.: 3,126,216.
- Krohm, Fred A.: 3,126,567.
- Macpherson, Robert B.: 3,140,501.
- Martens, Jack E.: 3,127,783.
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- Rieckenberg, George W.: 3,141,343.
- Smulski, Theodore J.: 3,131,532.
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- Anderson Controls, Inc.: See—
- Stone, Richard S.: 3,117,257.
- Anderson, David E.: See—
- Stanton, Arthur J., Anderson, and Boniface. 3,152,511.
- Stanton, Arthur J., Anderson, Shawen, and King. 3,153,368.
- Stanton, Arthur J., Anderson, Taylor, Butterworth, and Shawen. 3,144,810.
- Anderson, David F., R. Butterworth, and R. E. Taylor, to United States of America, Navy. Sear and trigger mechanism. 3,158,063, 11-24-64, Cl. 89-137.
- Anderson, Dewey L. Side wall sampling device. 3,154,157, 10-27-64, Cl. 175-78.
- Anderson Die and Mfg. Co.: See—
- Anderson, George C.: 3,152,693.
- Anderson, Donald A., to Canadian Ingersoll-Rand Co., Ltd. System and method for maintaining efficiency of screening particles under varying conditions of moisture content. 3,143,493, 8-4-64, Cl. 209-238.
- Anderson, Donald J. Despacable plunger mercury switch. 3,161,745, 12-15-64, Cl. 200-112.
- Anderson, Donald J. Induction furnace with removable crucible. 3,162,710, 12-22-64, Cl. 13-27.
- Anderson, Donald V., and J. G. Gillman, 31% to Wayne Lunders, and 10% to Paul D. Jackson. Method for removing the meat from king crab legs. 3,149,371, 9-22-64, Cl. 17-45.
- Anderson, Douglas E., to The General Electric Co. Ltd. Nuclear reactor servicing machines. 3,146,900, 9-1-64, Cl. 214-18.
- Anderson, Douglas G. F., to Baker Perkins, Inc. Conveyors. 3,144,111, 8-11-64, Cl. 193-35.
- Anderson, Earl R. Pitter for drupeaceous fruits. 3,119,426, 1-28-64, Cl. 146-28.
- Anderson, Earl R. Hose holding fixture. 3,119,587, 1-28-64, Cl. 248-75.
- Anderson, Earl R., to Filper Corp. Method and apparatus for spaced feed of articles. 3,126,087, 3-24-64, Cl. 198-34.
- Anderson, Edgar L., to Wilmet Castle Co. Control apparatus for doors. 3,144,956, 8-18-64, Cl. 220-55.3.
- Anderson, Edgar L., to Wilmet Castle Co. Closure apparatus for pressure chamber. 3,144,957, 8-18-64, Cl. 220-55.3.
- Anderson, Edgar L., to Wilmet Castle Co. Door locking apparatus. 3,145,021, 8-18-64, Cl. 268-65.
- Anderson, Edmund B., 1/2 to said Anderson and 1/2 to W. H. Stark. Anti-backlash slip joint. 3,143,867, 8-11-64, Cl. 64-23.
- Anderson, Edward E., M. P. Giggey, W. F. Hampton, and C. P. Shaw, to Ocean Spray Cranberries, Inc. Method of making a cranberry relish. 3,142,574, 7-28-64, Cl. 99-102.
- Anderson, Edward E., W. F. Hamilton, and A. W. Anti, to Ocean Spray Cranberries, Inc. Process for forming a jellied cranberry sauce. 3,142,577, 7-28-64, Cl. 99-129.
- Anderson, Edward E., J. I. Tichenor, and S. A. Raymond, to Arthur D. Little, Inc. Process for cooking corn dough in the form of chips. 3,149,978, 9-22-64, Cl. 99-80.
- Anderson, Edward P., to Engelhard Industries, Inc. Bronze half-cell for cathodic protection system. 3,117,070, 1-7-64, Cl. 204-196.
- Anderson, Edward P. Cathodic protection anode assembly. 3,156,637, 11-10-64, Cl. 204-196.
- Anderson, Edward P., and A. J. Zwanzig, to Engelhard Industries, Inc. Reference electrode assembly. 3,129,161, 4-14-64, Cl. 204-196.
- Anderson, Edwin A. Junk retriever. 3,120,872, 2-11-64, Cl. 166-99.
- Anderson, Edwin L., to E. I. du Pont de Nemours and Co. Polyethylene blend. 3,125,548, 3-17-64, Cl. 260-45.5.
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- Flynn, Gordon L.: 3,129,289.
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- Minor, Leon C.: 3,156,516.
- Anderson, Ellis T.: See—
- Leasure, William C., and Anderson. 3,133,390.
- Anderson, Elvin L., to Smith Kline & French Laboratories. Phenoxathiyl glyoxal derivatives. 3,117,121, 1-7-64, Cl. 260-240.
- Anderson, Elvin L., to Smith Kline & French Laboratories. Fluorenyl bisglyoxal derivatives. 3,146,259, 8-25-64, Cl. 260-518.
- Anderson, Elvin L., to Smith Kline & French Laboratories. Durene bisglyoxal derivatives. 3,157,098, 11-17-64, Cl. 260-518.
- Anderson, Elvin L., and D. E. Rivard, to Smith Kline & French Laboratories. 2-biphenyl-2-hydroxy-morpholinium halides. 3,117,967, 1-14-64, Cl. 260-247.7.
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- Anderson, Eric W.: See—
- Dohm, Daniel, Jr., and Anderson. 3,146,697.
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- Anderson, Floyd E., to Warner-Lambert Pharmaceutical Co. Substituted 2-imidazolines. 3,147,270, 9-1-64, Cl. 260-296.
- Anderson, Floyd E., and M. Fedorchuk, to Wallace & Tiernan Inc. Tropanylhydrazines. 3,132,148, 5-5-64, Cl. 260-292.
- Anderson, Frank E., and I. W. Mills, to Sun Oil Co. Preparation of electrical and refrigerator oils. 3,145,161, 8-18-64, Cl. 208-275.
- Anderson, Frank R. Automatic hot bed. 3,129,530, 4-21-64, Cl. 47-19.
- Anderson, Frank R. Hoeing machine. 3,129,772, 4-21-64, Cl. 172-42.
- Anderson, Frithiof B., to Bell Telephone Laboratories, Inc. Negative feedback amplifier. 3,128,436, 4-7-64, Cl. 330-79.
- Anderson, George A., to Collier-Keyworth Co. Swivel chair support construction. 3,161,396, 12-15-64, Cl. 248-405.
- Anderson, George B.: See—
- Anderson, George B., Hall, and Crenshaw. 3,133,291.
- Anderson, George B., S. A. Hall, and M. L. Crenshaw, to G. B. Anderson. Combustion toilet. 3,133,291, 5-19-64, Cl. 4-131.
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- Anderson, George L.: See—
- Holce, John P., and Anderson. 3,158,815.
- Anderson, George R., and D. M. Stough, to Hogan Controls Corp. Method of, and apparatus for correcting head type steam flow meters from steam pressure and superheat referred to superheat base. 3,143,879, 8-11-64, Cl. 73-205.
- Anderson, George W., and R. W. Young, to American Cyanamid Co. Imidazolephosphites. 3,120,542, 2-4-64, Cl. 260-309.
- Anderson, George W., and R. Paul, to American Cyanamid Co. Peptide synthesis using N,N'-carbonyldiimidazole activator. 3,121,707, 2-18-64, Cl. 260-112.
- Anderson, George W., and A. C. Belcher, to American Cyanamid Co. Para-nitrophenyl tertiary butyl carbonate. 3,124,606, 3-10-64, Cl. 260-463.
- Anderson, Gerald C., G. Mommensen, T. L. Schuette, M. J. Straub, and R. A. Zimmerman, to Gordon Johnson Co. Wire feeding mechanism for bird tying machine. 3,149,557, 9-22-64, Cl. 100-8.
- Anderson, Glenn A.: See—
- Hagen, William F., and Anderson. 3,134,243.
- Anderson, Glenn M., to Penick & Ford, Ltd. Method of sizing hydrophobic synthetic yarns. 3,144,351, 8-11-64, Cl. 117-138.8.
- Anderson, Glenn R., to McCulloch Corp. Fuel supply system. 3,158,193, 11-24-64, Cl. 158-36.3.
- Anderson, Greenwood & Co.: See—
- Greenwood, Marvin H.: 3,138,798.
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- Anderson, Harold C., to Litton Systems, Inc. Spin resonant transducer. 3,134,093, 5-19-64, Cl. 340-173.
- Anderson, Harold C., to Litton Systems, Inc. Optical device. 3,158,678, 11-24-64, Cl. 88-61.
- Anderson, Harold C., and A. E. Shamboltzer, to Litton Systems, Inc. Spin resonant transducer. 3,134,094, 5-19-64, Cl. 340-173.
- Anderson, Harold C., and K. E. Peltzer, to Litton Systems, Inc. Microwave process and apparatus. 3,137,003, 6-9-64, Cl. 346-74.
- Anderson, Harold P., to Bell Telephone Laboratories, Inc. Pulse shaper employing means to control time constant of included differentiator circuit. 3,140,407, 7-7-64, Cl. 307-88.5.
- Anderson, Harry B., to United Aircraft Corp. Electron beam centering apparatus. 3,152,238, 10-6-64, Cl. 219-121.
- Anderson, Herbert R., to Tri-Wall Containers, Inc. Corrugated cartons having crush-relieved flaps. 3,122,976, 3-3-64, Cl. 95-58.2.
- Anderson, Herbert R., Jr., to Phillips Petroleum Co. Use of ionizing radiation to improve polymer-metal laminates. 3,146,146, 8-25-64, Cl. 156-272.
- Anderson, Hilding A.: See—
- Kleinschmidt, Edward F., Anderson, Frick, Clark, and Chinlund. 3,150,235.
- Anderson, Hilding A., and R. S. Wenman, to SCM Corp. High speed serial printer. 3,131,627, 5-5-64, Cl. 101-93.
- Anderson, Howard H.: See—
- Halsted, Hal F., Benun, Mamone, and Anderson. 3,135,203.
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- Anderson, Jack G.: See—
- Anderson, John H.: 3,117,786.
- Anderson, James A., to Breneman-Hartshorn, Inc. Window shade bracket with crimped nail. 3,121,550, 2-18-64, Cl. 248-216.
- Anderson, James A., to Breneman-Hartshorn, Inc. Blind and valance combination. 3,124,195, 3-10-64, Cl. 160-19.
- Anderson, James A., and J. A. Ash, to Breneman-Hartshorn, Inc. Apparatus for cutting roller shades. 3,121,359, 2-18-64, Cl. 82-83.

- Anderson, James D., J. J. Brantigan, and H. H. Cohen, to Burndy Corp. Extraction tool. 3,135,043, 6-2-64, Cl. 29-270.
- Anderson, James D., and E. L. Cheh, to Burndy Corp. Swaging machine. 3,159,197, 12-1-64, Cl. 153-1.
- Anderson, James R. Process and apparatus for temporarily indicating corrections in text of printed matter. 3,136,248, 6-9-64, Cl. 101-426.
- Anderson, James W.: See—
- Quick, Kenneth A., Anderson, and Carter. 3,116,817.
- Anderson, Jens O. Adjustable means for hand tools. 3,125,381, 3-17-64, Cl. 306-12.
- Anderson, Jerrold L.: See—
- Miller, Robert E., and Anderson. 3,155,590.
- Anderson, John A.: See—
- Van Auwelaer, Albert J., Anderson, and French. 3,120,897.
- Anderson, John E., and I. W. Metzger, to Honeywell Inc. Pendulous gyroscopic accelerometers. 3,162,052, 12-22-64, Cl. 73-504.
- Anderson, John G., to General Electric Co. Surge voltage recorder. 3,148,372, 9-8-64, Cl. 346-74.
- Anderson, John G., and R. U. Giacomoni, to General Electric Co. Method and means for indicating the mode of failure of insulators. 3,156,866, 11-10-64, Cl. 324-72.
- Anderson, John H., 1/2 to J. G. Anderson. Wrist supporting device for bowlers. 3,117,786, 1-14-64, Cl. 273-54.
- Anderson, John J., and W. C. Harris, to S. C. Johnson & Son, Inc. Novel polish combination. 3,131,410, 5-5-64, Cl. 15-244.
- Anderson, John J., Jr. Thermal insulating assembly. 3,130,112, 4-21-64, Cl. 161-89.
- Anderson, John L., and D. C. England, to E. I. du Pont de Nemours and Co. Fluorosulfonates and sulfites, and the preparation of the latter. 3,163,656, 12-29-64, Cl. 260-327.
- Anderson, John M.: See—
- Ludway, Andrew S., and Anderson. 3,153,114.
- Anderson, John R., to The National Cash Register Co. Memory devices using ferroelectric capacitors and photoconductors. 3,158,842, 11-24-64, Cl. 340-173.2.
- Anderson, John W. Windshield wiper assembly. 3,130,437, 4-28-64, Cl. 15-250.42.
- Anderson, John W. Windshield wiper blade. 3,131,413, 5-5-64, Cl. 15-250.42.
- Anderson, John W. Method of making a pulley structure. 3,144,705, 8-18-64, Cl. 29-159.
- Anderson, John W. Windshield wiper blade. 3,156,940, 11-17-64, Cl. 15-250.42.
- Anderson, John W. Windshield wiper blade assembly. 3,158,890, 12-1-64, Cl. 15-250.42.
- Anderson, Joseph S., L. W. Gamble, W. H. Padgett, and R. L. Ray, to Esso Research and Engineering Co. Method for blending finely divided polyethylene and polypropylene and extruding the mixture and the product formed thereby. 3,153,681, 10-20-64, Cl. 260-897.
- Anderson, Karl V., to Ingersoll-Rand Co. Cam shaft construction. 3,142,998, 2-4-64, Cl. 74-54.
- Anderson, Kelvin E.: See—
- Rankin, Dudley D. R., and Anderson. 3,154,292.
- Anderson, Leonard R., to Kennecott Copper Corp. Braking system for railroad cars. 3,155,201, 11-3-64, Cl. 188-265.
- Anderson, Leroy E., to Snappy, Inc. Portable sheet metal hole cutter. 3,146,875, 9-1-64, Cl. 90-12.
- Anderson, Lester J., and J. W. Daley, to Marine Master, Inc. Remote control for motor boat engine and steering controls. 3,121,415, 2-18-64, Cl. 115-18.
- Anderson, Lloyd E., Sr., to Pittsburgh-Des Moines Steel Co. Fabrication of structural members. 3,144,543, 8-11-64, Cl. 219-102.
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- Anderson, Louis C. Jr., and H. H. Hagstrom, to Teletype Corp. Transmitter control mechanism. 3,146,306, 8-25-64, Cl. 178-17.
- Anderson, Louis C. Jr., and A. A. Hagstrom, to Teletype Corp. Electromagnet with spring-retained armature structure. 3,147,410, 9-1-64, Cl. 317-165.
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- Anderson, Louis H.: See—
- Eolkin, Dave, Allard, Anderson, and Lovasz. 3,147,173.
- Anderson, Louis H., to Gerber Products Co. Dehydrated fruit juice. 3,117,878, 1-14-64, Cl. 99-206.
- Anderson, Louis P. Aligning fixture. 3,148,454, 9-15-64, Cl. 33-185.
- Anderson, Lyle K.: See—
- Carruthers, Eben H., Anderson, and Jann. 3,152,912.
- Anderson, Lyle V., and R. Rozenbergs, deceased (by I. Rozenbergs, administratrix), to Blaw-Knox Co. Segmented coil drum. 3,116,891, 1-7-64, Cl. 242-72.1.
- Anderson, Lynn T., and C. E. Kress, to Bell Telephone Laboratories, Inc. High-speed steering circuit for frequency shift pulse sender. 3,125,642, 3-17-64, Cl. 179-18.
- Anderson, Malcolm G., to The Goodyear Tire & Rubber Co. Safety tire having an inner tire provided with a chafe and puncture resisting tread. 3,160,191, 12-8-64, Cl. 152-341.
- Anderson, Malcolm G., and J. S. Hawkes, to The Goodyear Tire & Rubber Co. Process for making pneumatic tires. 3,142,597, 7-28-64, Cl. 156-123.
- Anderson, Marshall N., to Sellstrom Mfg. Co. Adjustable temple for eyeglasses. 3,133,141, 5-12-64, Cl. 88-52.
- Anderson, Marshall N., to Sellstrom Mfg. Co. Cradle attachment for head protective equipment. 3,156,922, 11-17-64, Cl. 12-3.
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- Anderson, Marvin A. Oven tray. 3,141,590, 7-21-64, Cl. 225-6.
- Anderson, Marvin H., Jr., and R. Mittermann, to Western Electric Co., Inc. Conveyor system. 3,156,193, 11-10-64, Cl. 104-88.
- Anderson, Mary A. Baby carriers. 3,162,343, 12-22-64, Cl. 224-6.
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- Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Granular detergent dispenser. 3,135,429, 6-2-64, Cl. 222-161.
- Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Pushbutton switch construction. 3,149,208, 9-15-64, Cl. 200-5.
- Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Program timer. 3,151,257, 9-29-64, Cl. 307-141.4.
- Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Electric motor control. 3,159,244, 12-1-64, Cl. 185-11.
- Anderson, Melvin R., to Westinghouse Electric Corp. Terminal assembly shield. 3,129,049, 4-14-64, Cl. 339-149.
- Anderson, Miller, Pool Co.: See—
- Anderson, Miller A.: See—
- Anderson, Miller A., to Miller Anderson Pool Co. Swimming pool surface water removal system. 3,155,989, 11-10-64, Cl. 4-172.
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- Anderson, Nelson E., deceased; S. B. Anderson, administratrix, to Air Reduction Co., Inc. Pilot operated control device. 3,132,235, 5-5-64, Cl. 219-75.
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- Anderson, Noel M. Floating diaphragm for pressure tanks. 3,159,301, 12-1-64, Cl. 220-26.
- Anderson, Norman J. Apparatus for achieving symmetrical response and simple time characteristic. 3,137,822, 6-16-64, Cl. 329-204.
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- Ferrari, William A., Anderson, and Dean. 3,161,305.
- Anderson, Patricia T.: See—
- Johnson, Robert A., and Anderson. 3,127,388.
- Anderson, Paul L.: See—
- Roser, Robert A., and Anderson. 3,127,027.
- Anderson, Paul L., and J. A. Zagusta, to Rogers Corp. Method of making a printed circuit. 3,161,945, 12-22-64, Cl. 29-155.5.
- Anderson, Paul W. Fish lures with sinuous action. 3,157,959, 11-24-64, Cl. 43-42.03.
- Anderson, Pelham H., Jr.: See—
- Wheeler, James D., and Anderson. 3,124,848.
- Anderson, R. E.: See—
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- Anderson, Ralph F.: See—
- Anderson, Ralph F., and Sorensen. 3,124,916.
- Anderson, Ralph F., and E. A. Kremeyer, said Kremeyer assor. to said Anderson. Sausage stuffing apparatus. 3,118,173, 1-21-64, Cl. 17-37.
- Anderson, Ralph F., and R. P. Sorensen, to R. F. Anderson. Filling and capping machine. 3,124,916, 3-17-64, Cl. 53-37.
- Anderson, Ralph F., and F. W. Villemure, said Villemure assor. to said Anderson. Carton filling machine. 3,159,189, 12-1-64, Cl. 141-172.
- Anderson, Ralph F., and C. G. Hallgren, to National Lock Co. Latch assembly for medicine cabinets. 3,160,431, 12-8-64, Cl. 292-42.
- Anderson, Raymond J., to United States of America, Navy. Azimuth control system for towed submersible bodies. 3,125,980, 3-24-64, Cl. 114-235.
- Anderson, Richard F., to Arvin Industries, Inc. Electric terminal. 3,124,641, 3-10-64, Cl. 174-84.
- Anderson, Richard M.: See—
- Birum, Gail H., Schwendeman, and Anderson. 3,132,169.
- Anderson, Richard M., and G. H. Birum, to Monsanto Co. Flame resistant composition containing an organic polymer and halogenated diphosphate. 3,157,613, 11-17-64, Cl. 260-30.6.
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- Anderson, Richard R., to Bell Telephone Laboratories, Inc. Data translating system. 3,158,839, 11-24-64, Cl. 340-172.5.
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- Anderson, Robert A., and D. T. Brown, to International Business Machines Corp. Binary coded decimal to binary translator. 3,160,872, 12-8-64, Cl. 340-347.
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- Hofer, Lawrence J. E., and Anderson. 3,140,148.

- Anderson, Robert B., and W. R. Kirsch, to Farmer Bros. Co. Decanter with pouring spout and seal. 3,154,227, 10-27-64, Cl. 222-542.
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- Anderson, Rudolph C. Method and mechanism for hoisting and stowing small boats. 3,143,991, 8-11-64, Cl. 114-43.5.
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- Anderson, Warren L., to Halliburton Co. Directed acoustic velocity logging. 3,136,381, 6-9-64, Cl. 181-5.
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- Hanson, Roy R. 3,134,242.
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- Andersson, Anders R., and K. Nylund, to Allmanna Svenska Elektriska Aktiebolaget. Insulation for electrical conductors. 3,127,470, 3-31-64, Cl. 174-121.
- Andersson, Axel E., deceased; by H. Lindberg, legal representative. Tool means for a rotary debarking machine and mounting means therefor. 3,125,142, 3-17-64, Cl. 144-208.
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- Andersson, Harry, and G. Mildh, to Svenska Flakfabriken, Aktiebolaget. Method in soda recovery boiler plants for refeeding dust discharged from an electrostatic precipitator. 3,161,464, 12-15-64, Cl. 23-48.
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- Andersson, Sven B., and J. K. Holdo, to Atlas Copco Aktiebolag. Control devices for motor-driven compressors. 3,122,308, 2-25-64, Cl. 230-138.
- Andersson, Sven E. Formwork lock having two parallel locking slots. 3,154,998, 11-3-64, Cl. 85-36.
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- Anderton, Walter C. Mechanical pencil with eraser. Re. 25,514, 1-21-64, Cl. 120-22.
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- Andreoli, Franco and F. Deck-chair with automatic back-rest locking device. 3,135,551, 6-2-64, Cl. 297-359.
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- Antinori, Paul, deceased; P. Antinori, Jr., administrator, to B. F. and G. A. Garvey. Dampener assembly. 3,135,689, 6-2-64, Cl. 210—365.
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- Antonious, Anthony J. Expandable article storage case. 3,130,823, 4-28-64, Cl. 190—44.
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- Hecker, Arthur C., and Perry. 3,149,093.
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- Arko, Robert E., to Teletype Corp. Mechanical signal combiner. 3,159,712, 12-1-64, Cl. 178-22.
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- Baird, William D., K. Lawman, W. E. Stephen, and C. D. Weston, to Imperial Chemical Industries Ltd. Process for the coloration of cellulose textile materials with water-soluble azo dyestuffs containing sulphonyl fluoride groups. 3,131,021, 4-28-64, Cl. 8-41.
- Baird, William, and J. W. Batty, to Imperial Chemical Industries Ltd. Process for preparing β -hydroxyalkyl sulphonium salts. 3,159,682, 12-1-64, Cl. 260-607.
- Baird, William G., Jr., C. A. Lindstrom, Jr., A. L. Besse, Jr., and D. J. D'Entremont, to W. R. Grace & Co. Method of treating plastics. 3,126,680, 3-31-64, Cl. 53-3.
- Baisley, Raymond J.: See—
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- Baitinger, William F., Jr.: See—
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- Baitinger, Jack R., $\frac{1}{2}$ to J. J. Dougherty. Joint for pile shell sections. 3,125,858, 3-24-64, Cl. 61-52.
- Baitinger, Jack R., $\frac{1}{2}$ to J. J. Dougherty. Composite pile fixture. 3,134,236, 5-26-64, Cl. 61-53.
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- Bajenski, Edmund, and C. Varvaro, to Goodyear Aerospace Corp. Strain gage for high elongation. 3,118,301, 1-21-64, Cl. 73-88.5.
- Bajer, Jacques, to Ford Motor Co. Engine mount. 3,139,152, 6-30-64, Cl. 180-64.
- Bajer, Jacques, to Ford Motor Co. Suspension system having controlled wheel recession. 3,151,877, 10-6-64, Cl. 280-124.
- Bajulaz, Roger. Pleasure submersible boat. 3,129,681, 4-21-64, Cl. 114-16.
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- Baker, Alan G., to J. S. Kamborian. Dispensing apparatus for thermoplastic adhesive. 3,130,876, 4-28-64, Cl. 222-146.
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- Baker, Alan R., to National Research Development Corp. Detection or analysis of gases. 3,117,843, 1-14-64, Cl. 23-254.
- Baker, Ambrose D., to United States of America, Navy. Multiple amplifier circuit for proximity fuze. 3,131,388, 4-28-64, Cl. 343-7.
- Baker, Arthur F.: See—
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- Baker, Benjamin P.: See—
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- Baker, Carl E., to Phillips Petroleum Co. Roof drain for floating roof tank. 3,154,214, 10-27-64, Cl. 220-26.
- Baker, Charles B. Fastening device. 3,136,020, 6-9-64, Cl. 24-248.
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- Baker, Charles H., to Cleveland Pneumatic Industries, Inc. Fluid engine having a pressurized crankcase. 3,138,918, 6-30-64, Cl. 60-24.
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- Baker, Charles T., to Vermont Marble Co. Can end press with positive work stopping and holding means. 3,116,658, 1-7-64, Cl. 83-278.
- Baker, Chester R. Garbage can rack. 3,130,837, 4-28-64, Cl. 211-83.
- Baker, Cletus L., to Titanium Metals Corp. of America. Bend test apparatus. 3,142,174, 7-28-64, Cl. 73-100.
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- Baker, Clyde F., R. Bougie, and L. F. Shaw, to Borg-Warner Corp. Ice cube maker having bin control. 3,163,017, 12-29-64, Cl. 62-137.
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- Baker, David K., to Winston Electronics Ltd. Vagotomy test apparatus. 3,128,760, 4-14-64, Cl. 128-2.1.
- Baker, David K., to Baker Perkins Holdings Ltd. Manufacture of bread dough. 3,142,268, 7-28-64, Cl. 107-68.
- Baker, David S. Body temperature tempering device. 3,159,158, 12-1-64, Cl. 126-208.
- Baker, Don R., and T. B. Williamson, to Stauffer Chemical Co. Controlling microorganisms employing sulfonylacetone-triles. 3,142,616, 7-28-64, Cl. 167-22.
- Baker, Don R., and T. B. Williamson, to Stauffer Chemical Co. Method of killing nematodes and fungi with trichloroacrylonitrile. 3,145,138, 8-18-64, Cl. 167-22.
- Baker, Donald C., to J. I. Case Co. Access hole cover securing means. 3,125,239, 3-17-64, Cl. 220-35.
- Baker, Edgar G., to Gentex Corp. Swimming aid. Re. 25,601, 6-16-64, Cl. 9-337.
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- Baker, Gene W. Carrying and dispensing device for spool mounted wire. 3,134,555, 5-26-64, Cl. 242-86.5.
- Baker, George T., deceased, by Midland Bank Executor and Trustee Co. Ltd., administrator, to British Telecommunications Research Ltd. Telephone or like systems. 3,117,187, 1-7-64, Cl. 179-18.
- Baker, George W., to York Research Corp. Miniature arc discharge tube. 3,138,732, 6-23-64, Cl. 313-213.
- Baker, Harold E., E. H. Dodge, and M. N. Gilbert, Jr., to Sylvania Electric Products Inc. Electric switch assembly including indicator and mounting means. 3,156,805, 11-10-64, Cl. 200-167.
- Baker, Harold W., Jr. Rotary motor and pump. 3,121,398, 2-18-64, Cl. 103-140.
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- Baker, J. T. Chemical Co., The: See—
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- Musel, Robert J., and Harlow. 3,123,259.
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- Baker, John G., to Baker Mfg. Pressure sensing device. 3,123,689, 3-3-64, Cl. 200-81.
- Baker, John G. Pitless well construction. 3,136,362, 6-9-64, Cl. 166-485.
- Baker, John J.: See—
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- Baker, John J., and W. G. Benjey. Fluid coupling apparatus. 3,132,667, 5-12-64, Cl. 137-589.2.
- Baker, Joseph S., E. E. Colby, and T. W. Hurley, to The Procter & Gamble Co. Method for making peanut spread. 3,127,272, 3-31-64, Cl. 99-128.
- Baker, Joseph W.: See—
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- Baker, Joseph W., and R. E. Stenseth, to Monsanto Chemical Co. Alkoxyalkyl halophenyl carbonates. 3,120,555, 2-4-64, Cl. 260-463.
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- Baker, Paul A., to Bell Telephone Laboratories, Inc. Phase-modulation transmitter. 3,128,342, 4-7-64, Cl. 178-66.
- Baker, Paul A., to Bell Telephone Laboratories, Inc. Data communication system. 3,128,343, 4-7-64, Cl. 178-67.
- Baker, Paul E., S. R. Jones, and D. O. Seavers, to California Research Corp. Nuclear magnetism well logging. 3,135,912, 6-2-64, Cl. 324-5.
- Baker Perkins Holdings Ltd.: See—
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- Baker Perkins, Inc.: See—
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- Baker, Robert S., $\frac{1}{2}$ each to J. L. Cone, Jr., and C. W. and D. P. Cone. Apparatus for molding pre-stressed concrete members. 3,128,521, 4-14-64, Cl. 25-41.
- Baker, Robert S., to J. L. Cone, Jr., and C. W. and D. P. Cone. Split bolt anchor. 3,128,666, 4-14-64, Cl. 85-2.4.
- Baker, Russell A. Protective head covering. 3,125,763, 8-24-64, Cl. 2-177.
- Baker, Sidney X., and A. A. Oakley, to The Bendix Corp. Cable termination. 3,122,046, 2-25-64, Cl. 83-600.
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- Baker, Willard E.: See—
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- Baker, William E., to Baker Research and Development Corp. Adjustable plastic spray device. 3,130,919, 4-28-64, Cl. 239-546.
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- Baker, William J., to Gardner-Denver Co. Conductor wrapping bit. 3,143,307, 8-4-64, Cl. 242-7.
- Baker, William O., to Swimquip, Inc. Diving board structure. 3,125,340, 3-17-64, Cl. 272-66.
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- Baker, William R., and K. Halbach, to United States of America, Atomic Energy Commission. Contra-rotating plasma system. 3,132,996, 5-12-64, Cl. 176-7.
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- Kuris, Arthur, and Balamuth. 3,123,951.

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 Balke, Rodney W., J. M. Drees, and R. L. Lichten, to Bell Aerospace Corp. Rotary wing aircraft pylon mounting. 3,163,378, 12-29-64, Cl. 244-17.27.
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 Ball, Eugene E., Jr., to Lockheed Aircraft Corp. Tape shielded nozzle. 3,134,223, 5-26-64, Cl. 60-35.6.
 Ball, Frank J., W. K. Dougherty, and H. H. Moorer, Jr., to West Virginia Pulp and Paper Co. Method of making synthetic resin from lignin and an epoxide and resulting product. 3,149,085, 9-15-64, Cl. 260-17.5.

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 Ball, James A., to The Morris Plan Co. of Cedar Rapids. Surface grinder. 3,128,578, 4-14-64, Cl. 51-55.
 Ball, Karl D. Cleaning device for meat chopper plates. 3,120,236, 2-4-64, Cl. 134-100.
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 Ball, Thomas M., to Chrysler Corp. Carburetor choke control. 3,133,532, 5-19-64, Cl. 123-119.
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 Mesrobian, Robert B., Ballantine, and Metz. 3,131,139.
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 Ballard, Denis G. H., J. D. Griffiths, and J. Watson, to Courtaulds, Ltd. Wet spinning of birefringent solutions of optically active polypeptide. 3,121,766, 2-18-64, Cl. 264-202.
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Balmer, Hansjorg, and R. J. Gasparac, to Nordberg Mfg. Co. Bowl clamping mechanism for cone crushers. 3,140,835, 7-14-64, Cl. 241-286.
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 Balsam, Davis M., I. Sheroff, and A. Sbatz. Crimping machine. 3,158,189, 11-24-64, Cl. 153-1.
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 Baltes, Josef, O. Wechmann, and F. Weghorst, to Harburger Fettechemie Brinckman & Mergell G.m.b.H. Process for catalytic isomerization of compounds of unconjugated polyethenoid acids. 3,162,658, 12-22-64, Cl. 260-405.6.
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 Bamford, J. C., (Excavators) Ltd.: See—
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- Bancel, Paul A., to Ingersoll-Rand Co. Control system for internal combustion engine. 3,138,147, 6-23-64, Cl. 123-103.
- Banco, Aktiebolaget: See—
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- Bancroft, Joseph, & Sons Co.: See—
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- Bann, Charles W., Shattuck, and Langway. 3,132,462.
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- Rainard, Leo W., and Shattuck. 3,160,923.
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- Bancroft, Thomas, S. Walker, J. E. Lucas, and G. B. Ducker, to Blackburn Aircraft Ltd. Tracers for automatic machine tools. 3,148,590, 9-15-64, Cl. 90-62.
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- Bandell, Fred J., to Strong Cobb Arner, Inc. Effervescent composition containing polyvinylpyrrolidone. 3,136,692, 6-9-64, Cl. 167-57.
- Bander, Otto-Erich, W. Berndt, L. Hornig, W. Riemen-schneider, W. Schmidt, and U. Schwenk, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for oxidizing olefins to aldehydes and ketones. 3,154,586, 10-27-64, Cl. 260-597.
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- Bandy, Kenneth, L., and E. H. Rohrer, to The McKay Machine Co. Apparatus for cutting metal strip into sheets. 3,162,079, 12-22-64, Cl. 83-287.
- Bane, William R. Process of patching hoofs. 3,118,449, 1-21-64, Cl. 128-336.
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- Banet, Leo, and A. Hirschman. Thermal radiation explosion locator. 3,124,685, 3-10-64, Cl. 333-29.
- Bangert, John T., to Bell Telephone Laboratories, Inc. Signal delay system. 3,135,932, 6-2-64, Cl. 333-29.
- Bango, Joseph, to Kay Musical Instrument Co. Bass bow holder. 3,128,664, 4-14-64, Cl. 84-329.
- Bangs, John R., and F. Maud, to The Budd Co. Articulated radioactive source. 3,121,168, 2-11-64, Cl. 250-106.
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- Banko, George. Optical viewer and grinding wheel dresser. 3,143,831, 8-11-64, Cl. 51-165.
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- Banks, Arthur N., to Navy, Army and Air Force Institutes. Method and apparatus for the automatic brewing of tea and like beverages. 3,146,108, 8-25-64, Cl. 99-76.
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- Banks, Edward J.: See—
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- Banks, Ephraim, N. H. Riederman, and H. W. Schleuning, to Polytechnic Institute of Brooklyn. Process for producing thin film ferrimagnetic oxides. 3,148,079, 9-8-64, Cl. 117-62.
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- Banks, Melville R., to Walton Laboratories, Inc. Humidifier. 3,130,245, 4-21-64, Cl. 261-29.
- Banks, Melville R., to Walton Laboratories, Inc. Humidifier assembly. 3,130,246, 4-21-64, Cl. 261-29.
- Banks, Raymond, to Walton Laboratories, Inc. Humidifier. 3,155,746, 11-3-64, Cl. 261-29.
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- Banks, William P., to Jersey Production Research Co. Lubricant compositions. 3,118,839, 1-21-64, Cl. 252-25.
- Bankston, Lester T., and H. P. Jenkins, Jr., to United States of America, Navy. Hydrodynamic electromagnetic propulsion. 3,138,129, 6-23-64, Cl. 114-20.
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- Barabach, Boris, J. Berger, G. Dupuy, J. Lacour, and V. Radevski, to Commissariat à l'Energie Atomique. Reactor pile unit for studying materials under radiation. 3,147,189, 9-1-64, Cl. 176-62.
- Barabas, János, K. Láng, and L. Zselyonka. Microscope sub-stage illuminating device. 3,161,717, 12-15-64, Cl. 88-40.
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- Barbagallo, Charles J., and E. S. Fabiszewski, to Minneapolis-Honeywell Regulator Co. Digital data processing conversion and checking apparatus. 3,130,386, 4-21-64, Cl. 340-146.1.
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- Barber, Brian K., to The British Oxygen Co. Ltd. Extrusion process and apparatus. 3,153,108, 10-13-64, Cl. 264-176.
- Barber, Clifford C., to National Research Development Corp. Testing of gear wheels. 3,150,451, 9-29-64, Cl. 33-179.5.
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- Barber, Ernest E., and K. H. Simpkin, to General Precision Systems Ltd. Non-linear function generator. 3,128,376, 4-7-64, Cl. 235-197.
- Barber, Ernest H. Aircraft wing construction. 3,136,501, 8-9-64, Cl. 244-44.
- Barber, Gene D., to Control Data Corp. Variable pulse width generator. 3,139,595, 6-30-64, Cl. 332-12.
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- Barber, Ronald J., and J. M. Lowe, to Dunlop Tire and Rubber Corp. Method for the manufacture of pneumatic tires. 3,143,450, 8-1-64, Cl. 156-126.
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- Barbero, Fermo. Scraper segments. 3,155,394, 11-3-64, Cl. 277-141.
- Barbknecht, Fred W., and S. S. Svitovis, to International Harvester Co. Flow beam locating and alignment gage. 3,126,643, 3-31-64, Cl. 33-180.
- Barbour, Donald R., and R. V. Cahill, to General Electric Co. Elastic heater for compound curves. 3,152,313, 10-6-64, Cl. 338-214.
- Barbour, Marshall S.: See—
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- Barby, Etienne, to Boyer & Cie. Preparation of the tetraesters of pentaerythritol. 3,130,200, 4-21-64, Cl. 260-340.2.
- Barbulesco, Daniel J., and R. S. Braden, to General Motors Corp. Domestic appliance. 3,126,131, 3-24-64, 222-165.
- Barch, William E., to Standard Brands Inc. Instant tea. 3,163,539, 12-29-64, Cl. 99-77.
- Barclay, John L., J. B. Bream, D. J. Hadley, and D. G. Stewart, to The Distillers Co. Ltd. Production of unsaturated aliphatic nitriles. 3,152,170, 10-6-64, Cl. 260-465.3.
- Barco Mfg. Co., Inc.: See—
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- Bard, Albert L., and A. M. Johnson, to Armco Steel Corp. Abrasive grinding balls and method of manufacturing same. 3,141,708, 7-21-64, Cl. 75-204.
- Bard, Archie, and A. F. Aggen. Mushroom tray. 3,118,249, 1-21-64, Cl. 47-1.1.
- Bard, Charleston C., to Eastman Kodak Co. Method of inhibiting discoloration of color photographic layers containing dye images and resulting photographic products. 3,157,504, 11-17-64, Cl. 96-61.
- Bard, Charleston C., A. G. Millikan, and D. S. Thomas, Jr., to Eastman Kodak Co. Silver halide solvent containing developers and process. 3,128,182, 4-7-64, Cl. 96-61.
- Bard, Charleston C., and D. S. Thomas, to Eastman Kodak Co. Aldehyde scavengers for photographic silver halide developers. 3,141,771, 7-21-64, Cl. 96-22.
- Bard-Parker Co., Inc.: See—
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- Barden and Robeson Corp., The: See—
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- Bardet, George V., to M.J.B. Co. Gas contact of conveyed particulate solids. 3,160,483, 12-8-64, Cl. 34-236.
- Barditch, Irving F., to Westinghouse Electric Corp. Monolithic variable tuning amplifier. 3,118,114, 1-14-64, Cl. 330-38.
- Barditch, Irving F., to Westinghouse Electric Corp. Magneto-optical analog to digital signal converter. 3,121,866, 2-18-64, Cl. 340-347.

- Bardoneschl, Roland: See—
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- Bardt, Klaus J., to Ciba Ltd. Process for dyeing or printing structures of olefines of low molecular weight. 3,122,409, 2-25-64, Cl. 8-34.
- Baré, Jules. Gun case. 3,138,306, 6-23-64, Cl. 224-2.
- Barendrecht, Embrecht, to Stamcarbon N.V. Process and apparatus for titrating. 3,131,133, 4-28-64, Cl. 204-1.
- Barendsen, Pieter, and K. B. Berglund, to Atlas Copco Aktiebolag. Material handling machines. 3,153,476, 10-20-64, Cl. 198-125.
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- Bares, Edward F., and R. A. Haggard, to Automatic Poultry Feeder Co. Animal feeder system. 3,159,142, 12-1-64, Cl. 119-52.
- Baretta, Patrick A. Packageable boat. 3,121,887, 2-25-64, Cl. 9-2.
- Barfield, William M.: See—
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- Bargen, David W., to Motorola, Inc. Thermistor. 3,158,828, 11-24-64, Cl. 338-28.
- Barger, John N., C. W. Hurter, E. Perry, and S. G. Rumbold, to Aerojet-General Corp. System for pressurizing and expelling cryogenic liquids. 3,136,121, 6-9-64, Cl. 60-35.6.
- Barger, Stewart D.: See—
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- Bargetzi, Fred H., to Sperry Rand Corp. Magnetic transducer. 3,150,357, 9-22-64, Cl. 340-174.1.
- Barham, Allan M.: See—
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- Baricordi, Antonio. Grinding apparatus. 3,119,569, 1-28-64, Cl. 241-55.
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- Barish, Benjamin J. Self-erasing device. 3,149,425, 9-22-64, Cl. 35-61.
- Barish, Benjamin J., to Burroughs Corp. Method and apparatus for positioning and assembling wires and the like. 3,157,721, 11-17-64, Cl. 264-157.
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- Barish, David T., to Barish Associates, Inc. Aerial-recovery vehicles or systems. 3,150,850, 9-29-64, Cl. 244-138.
- Barkan, Philip, to General Electric Co. Hydraulically-actuated operating mechanism for an electric circuit breaker. 3,133,475, 5-19-64, Cl. 91-446.
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- Barker Automation, Inc.: See—
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- Barker, John L., to Laboratory for Electronics Inc. Traffic actuated control system. 3,128,446, 4-7-64, Cl. 340-35.
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- Barker, Melvin R., and B. H. Dellinger, to Comet Corp. Blank twistable to form a blowgun dart. 3,138,382, 6-23-64, Cl. 273-106.5.
- Barker, Norman H., and F. W. Grahame, to General Electric Co. Electrical capacitor construction to reduce shock hazard. 3,133,238, 5-12-64, Cl. 318-220.
- Barker, Peter W., to Imperial Chemical Industries Ltd. New azo dyestuffs. 3,117,118, 1-7-64, Cl. 260-207.1.
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- Barkman, David R., to Package Machinery Co. Wrapper forming means for wrapping machines. 3,140,631, 7-14-64, Cl. 83-302.

- Barkman, Rolf K. E.: See—
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Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 3,123,073.
Barr, Josiah M., to American Machine & Foundry Co. Toy missile and launcher. 3,132,442, 5-12-64, Cl. 46-77.
Barr, Leslie, to Nibot Corp. Dispenser top. 3,140,019, 7-7-64, Cl. 22-480.
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Barr Rubber Products Co., The: See—
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Barr and Stroud Ltd.: See—
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Barr, Victor L., to Roller Bearing Co. of America. Keyed segmented race rings and improved method of making same. 3,140,130, 7-7-64, Cl. 308-216.
Barr, William H. Cam energized engine starter. 3,140,703, 7-14-64, Cl. 123-179.
Barr, William H. Automatically rewinding engine starter. 3,150,653, 9-29-64, Cl. 123-179.
Barr, William J., and F. C. Wassel, to United States Steel Corp. Intermediate guide for adjacent vertical and horizontal bar-mill stands. 3,132,546, 5-12-64, Cl. 80-51.
Barragato, Achille R., and E. F. Smith, to United States of America, Army. Intra vehicle mechanical connector. 3,152,815, 10-13-64, Cl. 285-1.
Barras, Herbert. Quarter drain ditchers. 3,132,430, 5-12-64, Cl. 37-92.
Barrer, Richard M., to Union Carbide Corp. Separatory process using modified montmorillonites. 3,121,756, 2-18-64, Cl. 260-674.
Barrett, Arthur M., Jr., to Barrett Electronics Corp. Random control for power-driven unit. 3,128,840, 4-14-64, Cl. 180-77.
Barrett, Arthur M., Jr., to Barrett-Cravens Co. Fork lift truck with a laterally shiftable carriage means and forks that are pivoted about a horizontal axis. 3,154,208, 10-27-64, Cl. 214-730.
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Barrett, David M., and O. C. Hollstein, to Picker X-Ray Corp., Waite Mfg. Division, Inc. Tilttable X-ray table comprising means to produce a variable speed translational movement. 3,131,301, 4-28-64, Cl. 250-55.
Barrett, Donald L., to The Goodyear Tire & Rubber Co. Tire pitch. 3,160,194, 12-8-64, Cl. 152-367.
Barrett, Edward L., 11% to L. Pohl, 11% to H. P. Reynolds, 11% to F. A. Furr, and 11% to W. G. Pohn. Electro-mechanical drive and motion conversion device. 3,127,529, 3-31-64, Cl. 310-21.
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Barrett, Herbert I. Lid remover and replacer. 3,158,879, 12-1-64, Cl. 7-14.6.
Barrett, Laverne H., to Gorton's of Gloucester, Inc. Material handling apparatus. 3,150,775, 9-29-64, Cl. 209-124.

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Barrett, Leonard W.: Weight operated overload motor control for ventilating systems. 3,135,845, 6-2-64, Cl. 200-85.
Barrett, Oliver O.C.: Illusions. 3,126,202, 3-24-64, Cl. 272-8.
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Barringer, Jerry M., to General Electric Co.: Isolating and frequency multiplying circuit employing varactor diodes. 3,163,781, 12-29-64, Cl. 307-855.
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Barron, Lee H.: Diamond coated wire saw. 3,150,470, 9-29-64, Cl. 51-185.
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Barrow, John K., Jr.: Apparatus for continuously producing a fertilizer mixture. 3,140,920, 7-14-64, Cl. 23-259.1.
Barrow, John K., Jr.: Apparatus for producing a fertilizing mixture. 3,140,921, 7-14-64, Cl. 23-259.1.
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Barry, John K., to South Chester Corp.: Non-removable screw. 3,134,291, 5-26-64, Cl. 85-45.
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Barta, Henry J., to S & C Electric Co.: Means for controlling the connection between underground high voltage conductors. 3,122,658, 2-25-64, Cl. 307-94.
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Bartel, Robert S., and D. W. Bright, to International Business Machines Corp.: Electro-magnetic signal responsive device. 3,142,046, 7-21-64, Cl. 340-174.
Bartel, Pasquale F., H. Tint, and S. F. Colalongo, to American Home Products Corp.: Bacteria free dried smallpox vaccine. 3,135,661, 6-2-64, Cl. 167-78.
Bartels, Erich, to Rheinmetall G.m.b.H., Firma: Packing ring for firearms. 3,125,928, 3-24-64, Cl. 89-26.
Bartels, Ernst-August, to Chemische Werke Albert: Seed stock protecting agent in drillable form. 3,156,550, 11-10-64, Cl. 71-2.4.
Bartels, Herbert D., S. L. Flugge, and L. F. Irland, to Continental Can Co., Inc.: Package and method of forming same. 3,117,873, 1-14-64, Cl. 99-171.
Bartels-Kelth, James R., to Smith Kline & French Laboratories: Tropolone derivatives. 3,134,768, 5-26-64, Cl. 260-239.3.
Bartelson, Donald, to Chrysler Corp.: Training device. 3,123,921, 3-10-64, Cl. 35-19.
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Barth, Heinz A., to Gesellschaft für Linde's Elasmachinen Aktiengesellschaft: Testing of structural materials for low temperatures. 3,140,602, 7-14-64, Cl. 73-100.
Barth, Heinz A., to Gesellschaft für Linde's Elasmachinen Aktiengesellschaft: Method for heat treating welded metal plates. 3,162,555, 12-22-64, Cl. 148-145.
Barth, Seymour R., D. McCoy, and E. K. Stodola, to Dynamics Corp. of America: Missile tracking and control system. 3,134,972, 5-26-64, Cl. 343-7.4.
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Bartholomew, Wion L., deceased (Southern Bank & Trust Co., executor), to First Baptist Benevolent Assn.: Mobile crane. 3,152,789, 10-13-64, Cl. 254-139.1.
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Bartik, William J., to Sperry Rand Corp.: Ferrite core storage device. 3,124,787, 3-10-64, Cl. 340-174.
Bartkus, Edward A., R. F. Elfant, K. R. Grebe, and N. J. Mazzeo, to International Business Machines Corp.: Magnetic memory. 3,134,096, 5-19-64, Cl. 340-174.
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Bartlett, Jeffrey H., and S. B. Lippincott, to Esso Research and Engineering Co.: Production of monocarboxylic acids from large ring alicyclic alcohols. 3,121,728, 2-18-64, Cl. 260-413.
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Bartlett, Merrill F., to Ciba Corp.: Ajmaline derivatives and process therefor. 3,138,929, 5-19-64, Cl. 260-293.
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Bartlett, Paul D., to Pittsburgh Plate Glass Co.: Purification of oxiranes by reduction of carbonyl impurities with trivalent nitrogen compounds. 3,149,131, 9-15-64, Cl. 260-348.
Bartlett, Peter G., to Bartlett Laboratories, Inc.: Directional hydrophobic system. 3,148,351, 9-8-64, Cl. 340-16.
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Bartlett, William F., to General Dynamics Corp.: Time division multiplex telephone circuitry for providing rapid transfer of a call from one called party to another. 3,158,688, 11-24-64, Cl. 179-15.
Bartlett, William F., to General Dynamics Corp.: Impulse analyzer for time division multiplex switching systems. 3,158,812, 11-24-64, Cl. 328-42.
Bartlett, William F., B. W. Brightman, and J. H. Guenther, to General Dynamics Corp.: Automatic communication system. 3,134,858, 5-26-64, Cl. 179-18.
Bartley, Donald R., and G. S. Irby, to Haves Industries, Inc.: Process for forming foamed polyurethane using a silicone elastomer containing mold. 3,133,978, 5-19-64, Cl. 264-45.
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Bartolucci, Leo M., and J. A. Rohrer, to Bart Enterprises, Inc.: Structure for covering a swimming pool. 3,148,384, 9-15-64, Cl. 4-172.
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Barton, Charles J., and J. E. Lawver, to International Minerals & Chemical Corp.: Method for determining the phosphate content of phosphatic materials. 3,137,543, 6-16-64, Cl. 23-230.
Barton, Derek H. R., to Fritzche Brothers, Inc.: 6-substituted ionones and methods and intermediates used in their production. 3,117,982, 1-14-64, Cl. 260-348.
Barton, Derek H. R., B. A. Hems, T. Walker, A. C. Ritchie, R. F. K. Meredith, P. G. Holton, D. E. Clark, and G. B. Webb, to Glaxo Group Ltd.: 1-substituted tetrahydro isochinolines and process for preparing the same. 3,121,720, 2-18-64, Cl. 260-288.
Barton, Frank L., Jr., and W. L. Miller, to Libbey-Owens-Ford Glass Co.: Marking of glass sheets. 3,146,083, 8-25-64, Cl. 65-60.
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Barton, Gerald B., to United States of America, Atomic Energy Commission: Radioactive strontium containment. 3,161,600, 12-15-64, Cl. 252-301.1.
Barton, Gerald B., to United States of America, Atomic Energy Commission: Radioactive cesium containment. 3,161,601, 12-15-64, Cl. 252-301.1.
Barton, Hugh M., Jr., to Phillips Petroleum Co.: Method of and apparatus for irradiating fluid and solid materials with emanations from a radioactive source. 3,124,687, 3-10-64, Cl. 250-106.
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Barton, Roscoe C., to Armour and Co.: Material separating device. 3,143,213, 8-4-64, Cl. 200-93.
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Basham, Edgar W. J., E. J. Gratrex, R. F. Harland, and D. F. Maskell, to Normalar, Ltd. Body harness fastening means. 3,142,968, 8-4-64, Cl. 61-70.
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Basham, Raymond B., to The Western Co. Coincident pulse suppression system for simultaneous radioactivity well logging. 3,142,757, 7-28-64, Cl. 250-83.3.
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- Bowman, Robert S., and Plasecky. 3,149,082.
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- Bauman, Edward E., to North Electric Co. Dial light for telephone substation set. 3,132,211, 5-5-64, Cl. 179-81.
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- Bauman, Paul I. Orthodontic appliance. 3,119,183, 1-28-64, Cl. 82-14.
- Bauman, Ralph M. Portable urine specimen collecting device. 3,161,891, 12-22-64, Cl. 4-110.
- Bauman, Robert H., to General Motors Corp. Power servo construction. 3,136,229, 6-9-64, Cl. 92-99.
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- Baummann, Erich. Hob head with tangential slide on hobbing machines. 3,143,040, 8-4-64, Cl. 90-4.
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- Baummann, Hans D., to Worthington Corp. Control valve. 3,135,286, 6-2-64, Cl. 137-315.
- Baummann, Hans D. Adjustable laminar flow restriction. 3,144,870, 8-18-64, Cl. 138-43.
- Baummann, Hans D., to Worthington Corp. Override device for valve actuators. 3,150,752, 9-29-64, Cl. 192-142.
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- Baummann, Kurt, to Escher Wyss Aktiengesellschaft. Starting up a storage pump or pump-turbine. 3,163,118, 12-29-64, Cl. 103-87.
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- Baumgartner, Pierre, and P. Duhaut, to Institut Français Petroles, des Carburants et Lubrifiants. Process for manufacturing chlorine by oxidation of hydrochloric acid. 3,152,870, 10-13-64, Cl. 23-219.
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- Baumgartner, William H., and A. Druschitz, to Teletype Corp. Manual unshift mechanism for teletypewriters. 3,124,646, 3-10-64, Cl. 178-25.
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Beaton, Brian M., to General Electric Co. Radio controlled public warning system utilizing carrier current. 3,130,369, 4-21-64, Cl. 325-364.

Beatrice Foods Co.: See—
Noznick, Peter P., Bundus, and Eggen. 3,126,283.

Beattie, Clifford G., and V. D. Gumbert, to Allegheny Ludlum Steel Corp. Control system for surfacing apparatus. 3,149,439, 9-22-64, Cl. 51-34.

Beattie-Coleman, Inc.: See—
Beattie, James S. 3,118,357.

Marjoram, Ernest B. 3,118,358.

Marjoram, Ernest B., and Hedglin. 3,118,360.

Beattie, Jackson B., to Ford Motor Co. Ullage rod. 3,147,554, 9-8-64, Cl. 53-126.7.

Beattie, James S., to Beattie-Coleman, Inc. Camera. 3,118,357, 1-21-64, Cl. 95-11.

Beattie, Kenneth B., and R. P. Beattie, II, to Kenro Graphics, Inc. Lighting system for photographic cameras. 3,119,301, 1-28-64, Cl. 88-24.

Beattie, Robert D., and D. F. Othmer. Vapor-liquid contacting and mass transfer. 3,151,043, 9-29-64, Cl. 202-40.

Beattie, Roland P., II: See—
Beattie, Kenneth B., and R. P. Beattie, II. 3,119,301.

Beattie, William C., T. Champion, and E. C. Frowse, to Drake Block Co., Inc. Air-cooled burner ring. 3,130,773, 4-28-64, Cl. 158-1.5.

Beatty, Milton R., to D. G. Carty and S. J. Ternyak. Lock device for telephones. 3,124,664, 3-10-64, Cl. 179-189.

Beaty, Charles A., to Trak Microwave Corp. Miniature triode oscillator for high frequency operation. 3,162,823, 12-22-64, Cl. 331-97.

Beau, Charles, to Brown, Boveri & Cie, Aktiengesellschaft. Electrical fuse of the cartridge type incorporating cylindrical assembly of fusible links. 3,147,355, 9-1-64, Cl. 200-131.

Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Sliding gates and operating assembly for railway hopper cars. 3,127,852, 4-7-64, Cl. 105-253.

Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Aluminum doors for box cars. 3,127,963, 4-7-64, Cl. 189-46.

Beaudet, Wilfrid A. Grapples for lifting apertured items. 3,132,890, 5-12-64, Cl. 294-86.

Beaudoin, Norman R., and L. T. Stegmaler, to General Electric Co. Enclosed electric switch with rotary type operating handle and interlocking mechanism. 3,141,934, 7-21-64, Cl. 200-50.

Beaudry, John B.: See—
Beaudry, John R. 3,124,663.

Beaudry, John R., 1/2 to J. B. Beaudry. Hearing aid noise suppressor. 3,124,663, 3-10-64, Cl. 179-107.

Beaulieu, Nicole, and Y. Landler, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber Colombes, a.k.a. Kleber Colombes. Process for rendering linear polyester fibers adherent to polymers of vinyl chloride. 3,160,516, 12-8-64, Cl. 117-76.

Beaujard, Louis, J. Mondot, and M. Kapluszak, to Institut de Recherches de la Siderurgie Francaise. Ultrasonic inspection. 3,159,756, 12-1-64, Cl. 310-8.7.

Beaulieu, Delton C., and R. W. Martinek, to Kimberly-Clark Corp. Papermaking machine. 3,163,066, 12-29-64, Cl. 83-91.

Beaulieu, John L., to Goly and Co., Inc. Portable washing unit for tanks. 3,130,676, 4-28-64, Cl. 103-87.

Beaulieu, Raymond D., to Monsanto Co. Resin treated flexible battery separators. 3,161,547, 12-15-64, Cl. 136-146.

Beaulieu, Roland J. Sliding contact brushes. 3,157,770, 11-17-64, Cl. 200-166.

Beaumann, Raymond, to Derby S.A. Watch movement. 3,129,556, 4-21-64, Cl. 58-59.

Beaumann, Raymond, to Derby S.A. Watch movement. 3,138,916, 6-30-64, Cl. 58-59.

Beaumont, Lewis, to The Metal Box Co. of South Africa Ltd. Method of coating the inside surface of a container with palladium and adhesive for vacuum-packing of edible and like products. 3,123,491, 3-3-64, Cl. 117-8.

Beaumont, Richard W., to Ingersoll-Rand Co. Rock drill. 3,130,800, 4-28-64, Cl. 175-293.

Beaumont, Warren L.: See—
Crowther, Milton, Beaumont, and Kesler. 3,118,952.

Beaupre, Howard J., and C. M. Mesecke, to Texas Instruments Inc. Infrared detector and method of making same. 3,128,253, 4-7-64, Cl. 252-501.

Beauregard, Theodore: See—
Wolfe, Harmon M. 3,147,979.

Beauty Industries, Inc.: See—
Reeves, Frank S. 3,120,066.

Beaver, Bernard F., and W. O. Haberman, to Ralston Purina Co. Ply bait compositions containing dioctyl phthalates. 3,160,556, 12-8-64, Cl. 167-48.

Beaver, David J.: See—
Stoffel, Paul J., and Beaver. 3,149,031.

Stoffel, Paul J., and Beaver. 3,160,655.

Beaver, David J., and P. J. Stoffel, to Monsanto Co. Antiseptic detergent formulations containing halogenated carbanilates. 3,142,646, 7-28-64, Cl. 252-106.

Beaver, Garth H., and D. E. Cobb, to The Dow Chemical Co. Heat-sensitive water soluble cellulose ether compositions. 3,124,474, 3-10-64, Cl. 106-189.

Beaver Precision Products, Inc.: See—
Doran, Leo F. 3,128,611.

Doran, Leo F. 3,130,522.

Doran, Leo F. 3,145,599.

Beaver, Richard C., to Quadrant Engineering Corp. Means and method for purging a hydraulic system. 3,154,087, 10-27-64, Cl. 137-15.

Beaver Tool & Engineering Corp.: See—
Iacco, Albert A. 3,162,457.

Beaver, Victor E.: See—
Pappas, Charles A. 3,159,909.

Beaver, Wallace W., and B. B. Lympny, to The Brush Beryllium Co. Process for the production of ammonium beryllium compounds. 3,123,438, 3-3-64, Cl. 23-88.

Beaver, Wallace W., R. M. Paine, and A. J. Stonehouse, to The Brush Beryllium Co. Beryllium-tantalum composition. 3,150,970, 9-29-64, Cl. 75-174.

Beaver, Wallace W., R. M. Paine, and A. J. Stonehouse, to The Brush Beryllium Co. Method of making intermetallic compound-composition bodies. 3,150,975, 9-29-64, Cl. 75-214.

Beavers, Herman. Dual master cylinder. 3,157,034, 11-17-64, Cl. 60-54.6.

Beavon, David K.: See—
Goldsby, Arthur R., Beavon, and Flynn. 3,121,126.

Beavon, David K., to Texaco Inc. Alkylation process with assisted deisobutanizing. 3,162,694, 12-22-64, Cl. 260-683.62.

Behb, Herbert B., H. E. Heath, R. B. Hilborn, Jr., and F. S. Maddocks, to International Business Machines Corp. Thin film color display device. 3,141,920, 7-21-64, Cl. 88-1.

Bebeo Experimental & Mfg. Co.: See—
Calabrese, William L. 3,123,923.

Jackson, Elmer W., Jr. 3,162,477.

Beber, Arthur. Disposable nasal filter. 3,145,711, 8-25-64, Cl. 128-48.

Beber, Oral L.: See—
Carr, Norman L., Beber, and Brozowski. 3,142,713.

Behringer, Jack E., to General Electric Co. Stopper for food waste disposer. 3,154,256, 10-27-64, Cl. 241-46.

Becher, Harold, and C. B. Hatfield, to Strato-Missiles, Inc. Positive displacement pump. 3,162,359, 12-22-64, Cl. 230-149.

Bechik Products, Inc.: See—
Flightner, Donald O. 3,120,009.

Bechman, William O.: See—
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Becht, Cletus A., R. C. Gordon, N. Jouriles, and R. W. Sheatsley, to Goodyear Aerospace Corp. Plastic foam mixer. 3,142,477, 7-25-64, Cl. 259-44.

Bechtel, Paul B.: See—
Clemens, Vernon B., and Bechtel. 3,133,619.

Bechtel, Richard: See—
Sander, Erich, and Bechtel. 3,132,291.

Bechtold, Ira C.: See—
Alexander, Ford L., and Bechtold. 3,153,339.

Bechtold, Max F., to E. I. du Pont de Nemours and Co. Process for preparing printing element stencils from clarifiable polymeric materials. 3,149,967, 9-22-64, Cl. 96-27.

Bechtold, Max F., to E. I. du Pont de Nemours and Co. Composition containing iron, molybdenum, silicon and selected low-melting metals. 3,161,948, 12-22-64, Cl. 29-182.5.

Bechtold, Max F., and E. L. Little, Jr., to E. I. du Pont de Nemours and Co. High temperature resistant metal. 3,128,541, 4-14-64, Cl. 29-182.5.

Beck, Alfred. Cylindrical thread cutting tool having a chamfered rear section on the forward conical thread cutting portion. 3,125,772, 3-24-64, Cl. 10-111.

Beck, Basil D., to Owens-Illinois Glass Co. Refractory structure for molden glass. 3,123,345, 3-3-64, Cl. 263-46.

Beck, Carl E.: See—
Walker, Harry M., and Beck. 3,116,794.

Beck, Carl E., 10% to C. R. Beck. Pump. 3,138,109, 6-23-64, Cl. 103-127.

Beck, Carl R.: See—
Beck, Carl E. 3,138,109.

Beck, Donald J.: See—
Owl, George A., Ley, and Beck. 3,137,460.

Beck, Edward, to Crawford Fitting Co. Support for optical devices. 3,133,719, 5-19-64, Cl. 248-187.

Beck, Edward S.: See—
Lox, Walter E., and Beck. 3,137,666.

Beck, Edwin C., and L. H. Saylor, to Sealed Power Corp. Combined compression and oil ring assembly. 3,151,868, 10-6-64, Cl. 277-140.

Beck, Edwin H., to Manufacturers Supplies Co. Presser foot for high speed skiving machine. 3,133,434, 5-19-64, Cl. 69-9.5.

Beck, Edwin H., to Manufacturers Supplies Co. Mechanism for sharpening the bell knife of a skiving machine. 3,157,008, 11-17-64, Cl. 51-247.

Beck, Frederick R., and W. H. Jones, to Controls Co. of America. Timer controlled pressure operated dispenser. 3,124,271, 3-10-64, Cl. 222-70.

Beck, George, E. H. Bowers, P. H. Brown, and O. Thoma, to Dowty Hydraulic Units Ltd., and O. Thoma. Hydraulic pumps or motors. 3,137,243, 6-16-64, Cl. 103-162.

Beck, Harold L.: See—
Rosenkrands, John W., Beck, and Boettger. 3,121,561.

Beck, Henry C., H. E. Fowler, and F. J. Delmerico, to United States of America, Navy. Support structure for underwater sensing equipment. 3,160,847, 12-8-64, Cl. 340-4.

Beck, Henry E., to Caterpillar Tractor Co. Automatic positioning device for material handling bucket. 3,122,247, 2-25-64, Cl. 214-140.

Beck, Henry N.: See—
Alsgaard, Richard W., Beck, and Plueddemann. 3,137,599.

Alsgaard, Richard W., Beck, and Plueddemann. 3,146,248.

Alsgaard, Richard W., Beck, and Plueddemann. 3,146,249.

Beck, Henry N., to Dow Corning Corp. Silthylenesilarylenes and siloxane derivatives thereof. 3,162,663, 12-22-64, Cl. 260-448.2.

Beck, Henry T. Lighting fixture with supporting clip. 3,127,229, 3-31-64, Cl. 339-99.

Beck, Howard G., to The General Tire & Rubber Co. Pneumatic closure for multicompartiment receptacle. 3,151,650, 10-6-64, Cl. 150-1.

Beck, Hugo M., to United States of America, Navy. Electronic real time statistical analyzer. 3,151,312, 9-29-64, Cl. 340-172.5.

- Beck, Hugo M., to United States of America, Navy. Passive translator-magnetic core switching system. 3,156,904, 11-10-64, Cl. 340-174.
- Beck, Jacob H., to BTU Engineering Corp. Heat treating apparatus. 3,138,372, 6-23-64, Cl. 263-37.
- Beck, Jerry G., G. E. F. Brewer, G. L. Burnside, J. W. Mistele, and J. Smarsh, to Ford Motor Co. Method for filling electrically charged receptacle. 3,122,320, 2-25-64, Cl. 239-3.
- Beck, John H., and A. B. Stiles, to E. I. du Pont de Nemours and Co. Preparation of supported catalysts. 3,161,605, 12-15-64, Cl. 252-455.
- Beck, Julius S. Seal for a suspension drilling device. 3,128,102, 4-7-64, Cl. 277-17.
- Beck, Leonard H., to Wyandotte Chemicals Corp. Process for the preparation of carboxylic acids. 3,154,549, 10-27-64, Cl. 260-250.
- Beck, Martin L., Jr. Grass planter. 3,159,121, 12-1-64, Cl. 111-1.
- Beck, Nelson: See—
Adam, Folger, Browning, Stapay, and Nelson. 3,142,166.
- Beck, Nicholas R. Method of providing a cooked meat and sauce package. 3,132,029, 5-5-64, Cl. 99-174.
- Beck, Robert J., to Duff-Norton Co. Nut and screw mechanism. 3,135,497, 6-2-64, Cl. 254-103.
- Beck, Roland D.: See—
Rice, Harold W., and Beck. 3,122,616.
- Beck, Roland D., to Robertshaw Controls Co. Pneumatic control device. 3,143,141, 8-4-64, Cl. 137-625.2.
- Beck, Rudolf, to Hans J. Zimmer Verfahrenstechnik. Angular position signal generator. 3,158,826, 11-24-64, Cl. 336-30.
- Beck, Walther: See—
Wagner, Anton, Beck, and Diskus. 3,123,526.
- Beck, Warren R.: See—
Tung, Chi F., and Beck. 3,149,016.
- Beck, Wayne W.: See—
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- Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,118,483, 1-21-64, Cl. 152-361.
- Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire with reinforcement in zenith portion thereof. 3,123,122, 3-3-64, Cl. 152-330.
- Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire with angular reinforcement. 3,126,936, 3-31-64, Cl. 152-341.
- Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,161,220, 12-15-64, Cl. 152-356.
- Beckenbauer, William H., and A. L. Brown, to Norden Laboratories, Inc. Hog cholera vaccine and method of making the same. 3,122,477, 2-25-64, Cl. 167-80.
- Becker, Arnold F., to Bemis Bro. Bag Co. Bags. 3,129,871, 4-21-64, Cl. 229-62.5.
- Becker, Arnold F., to Bemis Bro. Bag Co. Manufacture of bags. 3,143,936, 8-11-64, Cl. 93-35.
- Becker, Bernard B., to Lewis-Shepard Co. Hydraulic hose take up. Re. 25,548, 4-7-64, Cl. 214-653.
- Becker, Bernard B., to Lewis-Shepard Co. Mechanism for an extending and retracting a load supporting member on an industrial truck. 3,162,317, 12-22-64, Cl. 214-731.
- Becker, Charles H., to United-Carr Inc. Bowden wire clip. 3,154,277, 10-27-64, Cl. 248-73.
- Becker, Charles H., to United-Carr Inc. Bowden wire clip. 3,154,278, 10-27-64, Cl. 248-73.
- Becker, Charles W.: See—
Surls, Joseph P., Jr., Becker, and Mod. 3,131,994.
- Becker, Earl M., and J. J. Bridge, to Mine Safety Appliances Co. Breathing apparatus. 3,129,707, 4-21-64, Cl. 128-142.
- Becker, Edward J.: See—
Robison, Robert S., and Becker. 3,129,229.
- Becker, Floyd K., and J. R. Davey, to Bell Telephone Laboratories, Inc. Bipolar binary digital data vestigial sideband system. 3,152,305, 10-6-64, Cl. 325-50.
- Becker, Frank E., to General Electric Co. Sheet-type heater and overheat protection device. 3,143,640, 8-4-64, Cl. 219-20.
- Becker, Gottfried, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of producing chromised screws, nuts and bolts. 3,118,224, 1-21-64, Cl. 29-528.
- Becker, Helmut: See—
Meissner, Fritz, Rudolph, and Becker. 3,162,510.
- Becker, Helmut, and H. Hickmann, to Huttenwerk Oberhausen A.G. Hot-gas valve. 3,150,680, 9-29-64, Cl. 137-375.
- Becker, Johannes, to Optische Industrie "De Oude Delft", N.V. Optical imagery system. 3,125,627, 3-17-64, Cl. 88-57.
- Becker, John C., Jr., and J. H. Bress, to Celanese Corp. of America. High gloss latex paints. 3,150,110, 9-22-64, Cl. 260-17.
- Becker, Josef, and W. G. J. Heckmann, to Klockner-Humboldt-Deutz A.G. Axially oscillating, horizontal centrifuge. 3,133,879, 5-19-64, Cl. 210-370.
- Becker, Karl V., to United Shoe Machinery Corp. Heel end assembling and back part molding machines. 3,138,810, 6-30-64, Cl. 12-12.3.
- Becker, Kenneth F. Flexible corner molding for curved surfaces. 3,159,251, 12-1-64, Cl. 189-85.
- Becker, Mitchell: See—
Okenberg, Harry, Russell, and Becker. 3,141,037.
- Becker, Myron, to Socony Mobil Oil Co., Inc. N-aminoethoxy alkanyl succinamic acid deceler. 3,148,960, 9-15-64, Cl. 44-71.
- Becker, Otto: See—
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- Becker, Otto A. Filing device. 3,125,041, 3-17-64, Cl. 108-60.
- Becker, Otto A. Vertical filing cabinet with fixed or movable compartments for standing or hanging up the folders therein. 3,146,046, 8-25-64, Cl. 312-234.2.
- Becker, Peter A., to General Electric Co. Dynamoelectric machine with liquid-cooled excitation supply means. 3,145,314, 8-18-64, Cl. 310-68.
- Becker, Ralph W. Webbing system using preprinted tape. 3,125,335, 3-17-64, Cl. 270-5.
- Becker, Reynolds G., to United States of America, Army Target ring assembly for aircraft external cargo hook. 3,133,759, 5-19-64, Cl. 294-74.
- Becker, Richard W., to Eastman Kodak Co. Photograph multicolor diffusion transfer process using dye developers. 3,161,506, 12-15-64, Cl. 96-3.
- Becker, Rudolf: See—
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- Becker, Rudolf, to Gesellschaft für Linde's Eisenmaschinen Aktiengesellschaft. Method and apparatus for the separation of carbon dioxide from compressed gases. 3,130,026, 4-21-64, Cl. 62-17.
- Becker, Rudolf, to Gesellschaft für Linde's Eisenmaschinen Aktiengesellschaft. System for conducting heat exchange operations in a gas separation apparatus incorporating periodically reversible regenerators. 3,143,406, 8-4-64, Cl. 62-13.
- Becker, Wilhelm: See—
Glabisch, Dietrich, Becker, and Dennstedt. 3,126,361.
- Müller, Erwin A., and Becker. 3,135,708.
- Becker, William C., and E. Smith, Jr., to Reynolds Metals Co. Methods and apparatus for shaping baking materials and the like. 3,128,725, 4-14-64, Cl. 107-54.
- Beckerlich, John F.: See—
Cunningham, Paul M., and Beckerlich. 3,135,957.
- Beckett, Madeline: See—
Leonard, Robert F., and Beckett. 3,118,765.
- Beckham Instruments, Inc.: See—
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- Arthur, Edwin P., and Dora. 3,150,517.
- Place, Thomas M., Jr., and Bradford. 3,149,300.
- Place, Thomas M., Sr. and Place, Jr. 3,149,002.
- Stevenson, George W., Carlsen, and Arthur. 3,147,081.
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- Beckham, Virgil E. Boat trailer. 3,127,042, 3-31-64, Cl. 214-505.
- Beckius, Ivar, and M. Rydinger, to Allmänna Svenska Elektriska Aktiebolaget. Corona projection screen for inductor coils in vacuum furnaces. 3,146,300, 8-25-64, Cl. 174-127.
- Beckley, Maurice S.: See—
Smith, Francis F., and Beckley. 3,125,066.
- Beckman, Harry R. Apparatus for grinding valves, valve seats, and cylinder ridges. 3,151,423, 10-6-64, Cl. 51-170.
- Beckman Instruments, Inc.: See—
Abrams, Virgil J. 3,157,081.
- Arthur, Edwin P. 3,124,470.
- Arthur, Edwin P., and Leonard. 3,143,488.
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- Braymer, Noel B. 3,139,373.
- Burnell, Maurice R., Foster, and Gallaway. 3,134,898.
- Carter, Norman W. 3,129,160.
- Charlton, Kyle W., Maxwell, and Spracklen. 3,160,015.
- Dora, Ralph A. 3,159,737.
- Dora, Ralph A., and Richards. 3,158,019.
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- Gardner, Douglas B., and Kuffer. 3,145,339.
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- Liston, Max D., and R. L. Madsen. 3,130,302.
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- Taylor, Daniel D., and Brawner. 3,155,553.
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- Whitley. Ernest M., and Vittl. 3,125,963.
- Beckman, John H.: See—
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- Beckman, John H., to Union Carbide Corp. Liquefied gas container. 3,147,877, 9-8-64, Cl. 220-9.
- Beckman, Leland J., and F. L. Kelly, to Allied Chemical Corp. Fertilizer containing ammeline-urea mixture. 3,142,558, 7-28-64, Cl. 71-30.
- Beckman, Paul. Temperature compensated electrical strain gage. 3,158,827, 11-24-64, Cl. 338-3.

- Beckman, Phillip J.: See—
O'Connell, Daniel J., Beckman, and Stockholm. 3,142,089.
- Beckman, Ronald, D. Gilchrist, and H. Yarme. Seating. 3,121,588, 2-18-64, Cl. 297-1.
- Beckman & Whitley, Inc.: See—
Bagley, Charles H. 3,159,103.
- Buck, Willard E. 3,122,062.
- Corcoran, John W. 3,161,885.
- Teepie, Lawrence R., Jr. 3,143,051.
- Beckmann, Erna M. D. E.: See—
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- Beckmann, Hans. Method and device for deep freezing of foods, luxuries and medicines. 3,150,497, 9-29-64, Cl. 62-64.
- Beckmann, Hans, deceased; E. M. D. E., L. E. H. K., and U. R. Beckmann, heirs. Method of conserving fresh fish. 3,162,020, 12-22-64, Cl. 62-240.
- Beckmann, Ludwig E. H. K.: See—
Beckmann, Hans. 3,162,020.
- Beckmann, Uta R.: See—
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- Beckner, Marshal H., and B. C. Colt, Jr., to Tri-State Engineering Co. Support means for steel studs and the like. 3,134,466, 5-26-64, Cl. 159-34.
- Beckord, Lawrence D., and J. G. Fleckenstein, to Kurth Malt-ling Co. Maltling process. 3,134,724, 5-26-64, Cl. 195-71.
- Beckson Mfg. Corp.: See—
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- Beckwith, Edward P., to United States of America, Navy. Torpedo steering control unit. 3,161,169, 12-15-64, Cl. 114-23.
- Beckwith, Sterling, to Dual Jet Refrigeration Co. Refrigerated display cabinet and method of operation. 3,122,892, 3-3-64, Cl. 62-81.
- Beckwith, Sterling, to Dual Jet Refrigeration Co. Refrigeration system. 3,129,567, 4-21-64, Cl. 62-256.
- Beckwith, Sterling, to Dual Jet Refrigeration Co. Multiple jet conditioning cabinet. 3,130,559, 4-28-64, Cl. 62-256.
- Beckwith, Sterling, to Dual Jet Refrigeration Co. Defrost method and means for refrigerated cabinets. 3,147,602, 9-8-64, Cl. 62-278.
- Beckwith, Sterling, to Dual Jet Refrigeration Co. Refrigerated display cabinet. 3,149,476, 9-22-64, Cl. 62-256.
- Beckwith, Sterling, and R. Vogel, to Dual Jet Refrigeration Co. Refrigerated enclosure. 3,128,609, 4-14-64, Cl. 62-256.
- Beckwith, Sterling, and D. B. Smith. Magnetohydrodynamic generator. 3,162,781, 12-22-64, Cl. 310-11.
- Beckwith, Sterling, and R. Vogel, to Dual Jet Refrigeration Co. Refrigerated cabinet structure. 3,163,024, 12-29-64, Cl. 62-256.
- Becton, Dickinson and Co.: See—
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- Taylor, Harry E. 3,119,521.
- Tschatzopoulos, Photos P. 3,141,460.
- Bedard, Francis L., and C. E. Mathis, to General Motors Corp. Engine horsepower meter. 3,135,110, 6-2-64, Cl. 73-115.
- Bedell, John R., and V. Tsonev, to Day Co., N.V. Method of producing electrical components. 3,147,167, 9-1-64, Cl. 156-264.
- Bedford, Burnice D.: See—
Neumann, Clarence A., Helberg, and Bedford. 3,160,842.
- Bedford, Colin T.: See—
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- Bedford, Leslie H., to The English Electric Co. Ltd. Accelerometers. 3,124,961, 3-17-64, Cl. 73-497.
- Bedford, William A., Jr. Fastening device. 3,119,490, 1-28-64, Cl. 206-53.
- Bedford, William A., Jr., to Thompson Bremer & Co. Fastener for supporting a conductor. 3,130,948, 4-28-64, Cl. 248-58.
- Bedford, William A., Jr., to Thompson Bremer & Co. Mold-ling clips. 3,137,048, 6-16-64, Cl. 24-73.
- Bedford, William A., Jr., to Bremer, Thompson & Co. Sheet metal fastener with T-shaped key. 3,156,282, 11-10-64, Cl. 151-175.
- Bedli, Mustafa F., to The English Electric Co. Ltd. Electric transformers. 3,160,838, 12-8-64, Cl. 336-69.
- Bedinghaus, William H. Rotary perforating roll units supported for movement towards and away from each other. 3,135,152, 6-2-64, Cl. 83-345.
- Bednar, Joseph A., and R. T. Warner, to General Motors Corp. Power steering system for articulated vehicles. 3,123,174, 3-3-64, Cl. 180-79.2.
- Bednarski, Valery N.: See—
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- Bednash, John H. Bowling ball having removable finger grip insert with venting and tool-receiving opening. 3,129,002, 4-14-64, Cl. 273-63.
- Bedoit, William C., Jr., to Jefferson Chemical Co., Inc. Process for the production of polyglycolamine and morpholine. 3,155,657, 11-3-64, Cl. 260-247.
- Bedol, Alan, to Marshallan Mfg. Co. Tray-table. 3,160,121, 12-8-64, Cl. 108-157.
- Beduertig, Herman F.: See—
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- Beebe Bros., Inc.: See—
Selsel, Ronald S. 3,117,659.
- Selsel, Ronald S. 3,126,985.
- Beebe, Emmett R., to S & C Electric Co. Arc welding apparatus. 3,123,704, 3-3-64, Cl. 218-125.
- Beebe, Herbert R., to American Doll & Toy Corp. Ball joint between doll head and body. 3,124,901, 3-17-64, Cl. 46-161.
- Beebe, Herbert R., and B. Suchowski, to American Character, Inc. Doll, toy figure and the like with an adjustable lock of hair. 3,162,976, 12-29-64, Cl. 46-172.
- Beebe, James R.: See—
Fuhrwerk, Victor C., Rose, and Beebe. 3,121,387.
- Beebe, Paul, Jr., to The Goodyear Tire & Rubber Co. Meat package and method of preparing same. 3,122,748, 2-25-64, Cl. 99-174.
- Beebe, Raymond A., to Massey-Ferguson Inc. Seed dropping attachment for planting implements. 3,133,515, 5-19-64, Cl. 111-36.
- Beebe, Ronald F., to Litton Systems, Inc. Pulse forming network. 3,153,730, 10-20-64, Cl. 307-88.5.
- Beebe, Stuart J., to Tex-Sun Glove Co. Glove with elastic band at wrist. 3,119,118, 1-28-64, Cl. 2-162.
- Beebee, Ralph N.: See—
Shelton, Leonard, Beebee, Jones, and Bush. 3,142,322.
- Beech, Austin S., and T. Spencer, to Austin S. Beech & Co. Ltd. Apparatus for controlling series of operations. 3,136,335, 6-9-64, Cl. 137-624.13.
- Beech, Austin S., & Co. Ltd.: See—
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- Beech, Oren R., to T.O. Plastics, Inc. Tray locking apparatus. 3,141,280, 7-21-64, Cl. 53-390.
- Beecham Group Ltd.: See—
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- Doyle, Frank P., and Nayler. 3,157,639.
- Doyle, Frank P., Nayler, and Rollinson. 3,132,136.
- Doyle, Frank P., Nayler, and Rollinson. 3,134,767.
- Beecham Research Laboratories Ltd.: See—
Buckwalter, Frank H., Granatek, and De Murio. 3,121,044.
- Doyle, Frank P., Nayler, and Smith. 3,120,513.
- Doyle, Frank P., Nayler, and Smith. 3,120,514.
- Mehta, Minoo D., and Quinton. 3,117,976.
- Nayler, John H. C., and Stove. 3,118,578.
- Perron, Yvon G., and Cheney. 3,118,877.
- Beecher, Stanley B., to Union Tank Car Co. Welding supporting apparatus. 3,159,126, 12-1-64, Cl. 113-99.
- Beegle, Lindley C.: See—
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- Beegle, Robert L., Jr., R. C. Brown, and C. M. James, to Aerojet-General Corp. Sensitized nitroparaffin. 3,132,960, 5-5-64, Cl. 149-36.
- Beehler, Richard F., and S. F. Murray, to The Lau Blower Co. Radial flow fan. 3,131,236, 4-28-64, Cl. 261-28.
- Beekenkamp, Gerald. Cuff links. 3,149,885, 9-22-64, Cl. 24-101.
- Beeman, Lyle. Compressor unloading system. 3,119,551, 1-28-64, Cl. 230-31.
- Beeman, Lyle. Pressure responsive snap acting switch. 3,135,844, 6-2-64, Cl. 200-83.
- Beeman, Lyle. Magnetic type pressure operated snap switch. 3,141,077, 7-14-64, Cl. 200-83.
- Been, James H. Cotton harvesting machine. 3,137,983, 6-23-64, Cl. 56-48.
- Been, Jerome L., and M. M. Grover, to Pittsburgh Plate Glass Co. Structural adhesive compositions. Re. 25,625, 7-28-64, Cl. 161-186.
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- Beene, Jones C., III. Furniture leg and attaching means therefor. 3,134,566, 5-26-64, Cl. 248-189.
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- Beer, Dr. Hans: See—
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- Beer, Emanuel E., to General Precision, Inc. Two-speed tape recorder transport mechanism. 3,124,291, 3-10-64, Cl. 226-178.
- Beer, Ludwig, H. Metzger, and D. Welsler, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of lactams. 3,154,540, 10-27-64, Cl. 260-239.3.
- Beerhower, Alan, and J. L. Murray, to Esso Research and Engineering Co. Method of using radioactive tracers. 3,130,314, 4-21-64, Cl. 250-106.
- Beerhower, Alan, H. W. Rudel, and F. A. Baumle, to Esso Research and Engineering Co. Pyrethrin-elastomer insecticidal composition and method. 3,158,535, 11-24-64, Cl. 167-24.
- Beerend, Ray F., to Basic Food Materials, Inc. Baking pan with replaceable liner. 3,155,304, 11-3-64, Cl. 229-3.1.
- Beermann, Claus, R. Graf, and H. Bestian, to Farbwerke Hoechst Aktiengesellschaft. Alkyltitanium halides. 3,117,984, 1-14-64, Cl. 260-429.5.
- Beermann, Paul, to Richard Rinker Firma. Detonator. 3,119,334, 1-28-64, Cl. 102-81.6.
- Beerndt, Claude, to Commissariat à l'Energie Atomique. Processes for sheathing the fuel elements of nuclear reactors. 3,118,222, 1-21-64, Cl. 29-514.
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- Beers, Roland F., Jr. Process for recovering catalase from the cells of micrococcus lysodeikticus. 3,123,539, 3-3-64, Cl. 195-66.

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- Beese, Norman C., to United States of America, Navy. High intensity short arc lamp. 3,154,713, 10-27-64, Cl. 313-267.
- Beeskow, Bruno E. A. H., to Daimler-Benz Aktiengesellschaft. Clutch control system. 3,130,827, 4-28-64, Cl. 192-13.
- Beesley, James P., to International Business Machines Corp. Cryotron clip and clamp circuit. 3,149,240, 9-15-64, Cl. 307-88.5.
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- Beezer, Earl F., and R. Mahr, to Radio Corp. of America. Automatic grid winding apparatus. 3,139,120, 6-30-64, Cl. 140-71.5.
- Beffa, Fabio, and G. Schetty, to J. R. Gelgy, A-G. Heavy metal-containing monoazo dyes. 3,125,561, 3-17-64, Cl. 260-146.
- Beffa, Fabio, and G. Schetty, to J. R. Gelgy, A-G. Heavy metal-containing azo dyestuffs. 3,132,130, 5-5-64, Cl. 260-147.
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- Begeman, Robert H., to United States of America, Navy. Direct current coupled crossover detector circuit. 3,154,745, 10-27-64, Cl. 328-133.
- Begeman, Robert H., and F. A. Marasco, to United States of America, Navy. Fixed antenna terrain clearance system. 3,153,234, 10-13-64, Cl. 343-16.
- Begemann, Pauline H.: See—
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- Begg, Percy R. Orthodontic bracket. 3,128,553, 4-14-64, Cl. 32-14.
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- Beguin, Fred P., to American Optical Co. Ear protectors. 3,160,717, 12-8-64, Cl. 179-182.
- Beguin, Richard F. Sequential annunciator system. 3,138,791, 6-23-64, Cl. 340-223.
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- Behlen, George D., to The United States Electrical Tool Co. Grinding machine with means for compensating for grinding wheel wear. 3,157,006, 11-17-64, Cl. 51-134.5.
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- Behn, Prescott, and A. C. Whitaker, to J. M. Huber Corp. Abrasive paper filled with pellets of spray dried siliceous pigments. 3,149,024, 9-15-64, Cl. 162-181.
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- Behner, Donald C., to North American Refractories Co. Refractory structure. 3,148,230, 9-8-64, Cl. 264-30.
- Behnke, Arnold F., to Kay-Brunner Steel Products, Inc. Self equalizing tandem spring suspension assembly. 3,117,799, 1-14-64, Cl. 280-104.5.
- Behnke, George W., to Simplicity Engineering Co. Crusher apparatus. 3,148,840, 9-15-64, Cl. 241-275.
- Behnke, George W., R. G. Westcott, and H. A. Wirth, to Simplicity Engineering Co. Crusher mechanism. 3,154,259, 10-27-64, Cl. 241-275.
- Behnke, George W., R. G. Westcott, and J. A. Richmond, to Simplicity Engineering Co. Apparatus for shaking out foundry flasks. 3,162,910, 12-29-64, Cl. 22-95.7.
- Behnke, Robert C., and A. R. Walker, to General Motors Corp. Valve lifter. 3,124,869, 3-17-64, Cl. 29-156.7.
- Behr, Albert I. Dual-purpose trailer. 3,118,552, 1-21-64, Cl. 214-500.
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- Behr, Walther, and H. Elsner, to Olympia Werke A.G. Tabulator for typewriters and the like. 3,137,381, 6-16-64, Cl. 197-191.
- Behrenbruch, Horst, W. Happe, and H. Hoyer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of shaped structures of polyolefins having improved dyeing properties. 3,156,745, 11-10-64, Cl. 260-89.7.
- Behrendt, Otto, and J. Schiffer, to Schloemann Aktiengesellschaft. Means for severing from an extruded product a pack expelled by a press ram from the container of a metal extrusion press. 3,129,818, 4-21-64, Cl. 207-1.
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- Berger, Heinz R. Schmidt, and H. Schnoring, to Agfa Aktiengesellschaft. Developing machine for photographic material. 3,121,382, 2-18-64, Cl. 95-94.
- Berger, Henry G., F. P. Otto, and J. W. Schick, to Socony Mobil Oil Co., Inc. Fuel containing nitrogen-containing oxidized oil products. 3,121,622, 2-18-64, Cl. 44-63.
- Berger, Henry G., F. P. Otto, and J. W. Schick, to Socony Mobil Oil Co., Inc. Nitrogen-containing oxidized oil products and fuel and lubricating oil compositions containing the same. 3,121,690, 2-18-64, Cl. 252-51.5.
- Berger, Herbert F., H. W. Gehm, and A. J. Herbert, to National Council for Stream Improvement (of the Pulp, Paper and Paperboard Industries) Inc. Decolorizing kraft waste liquors. 3,120,464, 2-4-64, Cl. 162-33.
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- Berger, John H., to Arthur G. McKee & Co. Production of nitrogen dioxide. 3,136,602, 6-9-64, Cl. 23-162.
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- Berger, Joseph C., Jr., to Ailsun Corp. Damping of surface movement of quench bath in melt spinning process. 3,126,434, 3-24-64, Cl. 264-178.
- Berger, Julius, M. W. Goldberg, M. Müller, and L. H. Sternbach. Antibiotic and method of production. 3,118,813, 1-21-64, Cl. 167-65.
- Berger, Kornel. Socket shells. 3,126,160, 3-24-64, Cl. 240-153.
- Berger, Leo J., Jr., to Scans Associates, Inc. Pressure indicating device. 3,150,525, 9-29-64, Cl. 73-407.
- Berger, Martin. Optical-mechanical nomograph. 3,132,800, 5-12-64, Cl. 235-61.
- Berger, Michael Z., and J. Mermelstein. Display device. 3,162,008, 12-22-64, Cl. 58-126.
- Berger, Otto. Long scale moving coil electrical measuring instrument with additional flux augmenting magnet means in the air gap. 3,139,581, 6-30-64, Cl. 324-150.
- Berger, Paul: See—
- Feinberg, Albert E., and Berger. 3,125,705.
- Berger, Pierre, to Compagnie des Ateliers et Forges de la Loire (St. Chamond-Firminy-St. Etienne-Jacob-Holtzer). Extrusion apparatus having cone-shaped rotor means. 3,129,460, 4-21-64, Cl. 18-12.
- Berger, Richard F., to Foster Grant Co., Inc. Plastic decorating method. 3,122,598, 2-25-64, Cl. 204-247.
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- Berger, Sol J., and Rivenburgh. 3,147,560.
- Berker, Rolf: See—
- Klemensschneider, Fritz, and Berger. 3,138,978.
- Berker, Samuel. Shirt with improved adjustable collar button. 3,142,843, 8-4-64, Cl. 2-128.
- Berker, Sol J., and J. G. Rivenburgh, to Berger-Rivenburgh. Advertising display. 3,147,560, 9-8-64, Cl. 40-125.
- Berker, Stanley, to Auricord Corp. Tape lifter for tape recorder. 3,141,594, 7-21-64, Cl. 226-199.
- Berker, Stanley, and L. Rosenblatt, to Auricord Corp. Tape recorder transport. 3,124,318, 3-10-64, Cl. 242-55.12.
- Berker, Stephen: See—
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- Bergerson, Harold L., and D. S. Potter; said Potter assor. to said Bergerson. Wheel-supported boom and vehicle. 3,119,504, 1-28-64, Cl. 254-139.1.
- Bergerson, Harold L., and D. S. Potter; said Potter assor. to said Bergerson. Vehicle with boom. 3,141,654, 7-21-64, Cl. 254-139.1.
- Bergey, Ellwood, and A. F. Graf von Soden. Temperature responsive magnetic coupling. 3,144,573, 8-11-64, Cl. 316-94.
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- Berggren, Loring J., and C. T. Hathaway; said Berggren assor. to Monsanto Co. Coating of biaxially oriented film. 3,160,917, 12-15-64, Cl. 18-14.
- Berggren, Loring J., and C. T. Hathaway; said Berggren assor. to Monsanto Co. Apparatus utilizing a lubricated mandrel for introducing biaxial orientation into thermoplastic tubular members. 3,160,918, 12-15-64, Cl. 18-14.
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- Berghaus, Bernhard, to Elektrophysikalische Anstalt Bernhard Berghaus. Method of reducing barrel wear. 3,130,671, 4-28-64, Cl. 102-93.
- Berghaus, Bernhard, and H. Bucek, to Elektrophysikalische Anstalt Bernhard Berghaus. Two electrode arrangement for electric glow discharge chambers. 3,117,246, 1-7-64, Cl. 313-146.
- Berghaus, Bernhard, and M. Staesche. Method of producing metals. 3,135,675, 6-2-64, Cl. 204-164.
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- Bergman, Elliot, to Shell Oil Co. Soluble nitrogen-containing derivatives of unsaturated aldehyde polymers, their preparation and use. 3,121,700, 2-18-64, Cl. 260-29.6.
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- Bergman, Lars G., to Jarnbiller Aktiebolag. Coupling. 3,134,221, 5-26-64, Cl. 59-85.
- Bergman, Lars O., to Aktiebolaget Pellerins Margarinfabrik. Method for purifying fat. 3,147,291, 9-1-64, Cl. 260-424.
- Bergman, Paul F., to Johnson Products, Inc. Rocker arm oiling system. 3,144,094, 8-11-64, Cl. 184-6.
- Bergman, Peter K.: See—
- Jefferts, Keith B., and Bergman. 3,128,744.
- Bergman, Richard H., to Radio Corp. of America. Pulse regenerator with negative resistance diode biased in high voltage by inductor and constant-voltage source. 3,119,936, 1-28-64, Cl. 307-88.5.
- Bergman, Richard H., to Radio Corp. of America. Two-diode monostable circuit. 3,119,937, 1-28-64, Cl. 307-88.5.
- Bergman, Richard H., E. C. Cornish, and M. M. Kaufman, to Radio Corp. of America. Logic circuit having bistable tunnel diode reset by monostable diode. 3,133,206, 5-12-64, Cl. 307-88.5.
- Bergman, Richard I.: See—
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- Bergman, Stephen A., and D. F. Cockrell, to Panhandle Eastern Pipe Line Co. Combination valve and cleaning ball launcher. 3,146,477, 9-1-64, Cl. 15-104.06.
- Bergmann, Anders K., to Telefonaktiebolaget L. M. Ericsson. Circuit arrangement for signalling through telephone lines. 3,138,668, 6-23-64, Cl. 179-18.
- Bergmann, Anders K., A. C. Jacobaeus, and H. Scheffelwitz, to Telefonaktiebolaget L. M. Ericsson. Telecommunication system. 3,159,720, 12-1-64, Cl. 179-15.55.
- Bergmann, Anna, and R. Janser. Dispensing brush. 3,135,490, 6-9-64, Cl. 15-604.
- Bergmann, Josef, and G. Engels, to North American Philips Corp. Inc. Device for abrading and polishing in particular curved surfaces of glass objects. 3,149,443, 9-22-64, Cl. 51-196.
- Bergmann, Joseph C. Multiple circular shear. 3,144,796, 8-18-64, Cl. 82-57.
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- Bergquist, Clifford A., to Pendleton Tool Industries, Inc. Reversible ratchet drive. 3,127,799, 4-7-64, Cl. 81-62.
- Bergslien, Robert M., and J. L. Radnik, to The Skinner Chuck Co. Linear eddy-current electromagnetic actuator. 3,148,292, 9-8-64, Cl. 310-13.
- Bergson, Gustav. Plural input signal comparing means using differential electrometer amplifier means. 3,135,918, 6-2-64, Cl. 324-140.
- Bergstrand, Lars W. Veneer slitting apparatus. 3,163,071, 12-29-64, Cl. 83-433.
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- Bergstrom, Adolph G., and E. F. Rydell, to Bergstrom Mfg. Co. Vehicle heating apparatus. 3,131,757, 5-5-64, Cl. 165-35.
- Bergstrom, Carl P., and R. F. Dion, to Crompton & Knowles Corp. Combined shuttle box changing mechanism and lay motion. 3,128,796, 4-14-64, Cl. 139-171.
- Bergstrom, Carl V., 1/2 to P. C. Parfitt, and 1/4 each to E. R. Keithley, E. B. Olson, and W. N. Bergstrom, and 1/4 each to R. J. Thurel, and R. B. Thurel. Acoustical and thermal insulation. 3,126,978, 3-31-64, Cl. 181-33.
- Bergstrom, Clarence G., to G. D. Searle & Co. 21-halo-20-hydroxypregn-4-en-3-ones and esters thereof. 3,138,623, 6-23-64, Cl. 260-397.47.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Catalytic conversion of hydrocarbons with a silica-alumina and crystalline zeolite catalyst composite. 3,143,491, 8-4-64, Cl. 208-74.
- Bergstrom, Eric V., and R. J. Devlin, to Socony Mobil Oil Co., Inc. Isothermal-adiabatic catalytic hydrocarbon conversion. 3,128,242, 4-7-64, Cl. 208-69.
- Bergstrom, Erar W. Vertically adjustable shelf bracket and channel support. 3,158,349, 11-24-64, Cl. 248-243.
- Bergstrom, Harold A., to Continental Can Co., Inc. Method of making edge reinforced tubes used in forming reinforced fiber drums. 3,151,012, 9-29-64, Cl. 156-184.

- Bergstrom, Harold A., to Continental Can Co., Inc. Folded plastic bag in fiber drum. 3,153,305, 11-3-64, Cl. 229-14.
- Bergstrom, Lars R., to Allmanna Svenska Elektriska Aktiebolaget. Damping device for oil circuit breakers. 3,118,997, 1-21-64, Cl. 200-150.
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- Berhenke, Luther F., to The Dow Chemical Co. Automatic melting point recorder. 3,150,514, 9-29-64, Cl. 73-17.
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- Beriger, Ernst. Methods and compositions for combating pests with beta-phosphate esters of 2-butenones of mono glycerate heterocyclic acetals and glycerate carbonates. 3,136,690, 6-9-64, Cl. 167-33.
- Beriger, Ernst, to Ciba Ltd. Beta-phosphate esters of 2-butenones of monoglycerate heterocyclic acetals and glycerate carbonates. 3,136,784, 6-9-64, Cl. 260-340.7.
- Berling, Jorgen D. Balanced valves. 3,121,444, 2-18-64, Cl. 137-432.
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- Berk, Howard E. Book stop device. 3,121,494, 2-18-64, Cl. 211-43.
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- Berk Research Corp.: See—
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- Berkeley Chemical Corp.: See—
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- Berkeley, Davis, Inc.: See—
- Berkeley, Laurence J., to Berkeley-Davis, Inc. Wire feeding apparatus. 3,119,536, 1-28-64, Cl. 226-110.
- Berkeley, Peter J., Jr., L. V. Robbins, Jr., and R. N. Watts, to Esso Research and Engineering Co. Conversion of aldol aldehydes to alcohols. 3,127,451, 3-31-64, Cl. 260-638.
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- Berkow, Samuel G., to Menlo Park Laboratories, Inc. Hygienic dispenser apparatus. 3,161,196, 12-15-64, Cl. 128-225.
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- Berkowitz, Lewis M., M. D. Shoaf, and R. E. Schachat, to General Foods Corp. Pastry mix having thiolated gelatin incorporated therein and method utilizing said mix. 3,157,515, 11-17-64, Cl. 99-92.
- Berks, William I., and V. Brajer, to United States of America. Navy. Device to eliminate shear slide in pre-packaged liquid powerplants. 3,138,001, 6-23-64, Cl. 60-39.48.
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- Hashman, Joseph S., and Berkstresser. 3,119,870.
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- Berlant, Sigmund. Electrically controlled reversible hydraulic circuit means for rotary and axially movable tool spindle. 3,137,016, 6-16-64, Cl. 10-136.
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- Berlin, Daniel. Child's convertible bed and seat. 3,124,388, 3-10-64, Cl. 297-320.
- Berlin, Daniel. Child's car seat. 3,146,026, 8-25-64, Cl. 297-255.
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- Smith, Richard G., and Berman. 3,154,049.
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- Bermingham, John R., to Leslie Co. Throttling valve. 3,125,122, 3-17-64, Cl. 137-625.3.
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- Bernard, John S. Fuel pump apparatus. 3,150,595, 9-29-64, Cl. 103-37.
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- Bernard, Maurice J.: See—
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- Bernardi, Luigi: See—
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- Bernardi, Luigi, G. Larin, and A. Leone, to Società Farmaceutici Italia. Synthesis of 2-amino-3-methoxy-5-chloro pyrazine. 3,158,612, 11-24-64, Cl. 260-250.
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- Berner, Leo, to United States of America, Navy. Missile handling trailer. 3,133,654, 5-19-64, Cl. 214-501.
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- Bernhauer, Konrad, W. Friedrich, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of vitamins of the group B₁₂. 3,120,509, 2-4-64, Cl. 260-211.5.
- Bernheim, George W. Photoelectric switch adapter for lamps, lanterns and the like. 3,163,768, 12-29-64, Cl. 250-238.
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- Bernstein, Allan C., to Executone Inc. Electrical connection for circuit component to panel conductor. 3,149,895, 9-22-64, Cl. 339-17.
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- Bernstein, Harold, to Manlabs, Inc. Variable resistivity semiconductor amplifier phonograph pickup. 3,144,522, 8-11-64, Cl. 179-100.41.
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- Bernstein, Jack, to Sowinski and Bernstein. 3,127,409.
- Bernstein, Jack, to Sowinski, and Bernstein. 3,133,936.
- Bernstein, Jack. Hearing aid tube attachment. 3,157,245, 11-17-64, Cl. 181-23.
- Bernstein, Jack, K. A. Losee, and M. A. Dolliver, to Olin Mathieson Chemical Corp. 1-benzoyloxy-3-acetyl-ureas. 3,121,113, 2-11-64, Cl. 260-553.
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- Heller, Milton, and Bernstein. 3,139,427.
- McEvoy, Francis J., Heller, and Bernstein. 3,146,230.
- Bernstein, Seymour, and J. P. Joseph, to American Cyanamid Co. 16-substituted-3,20-diketo pregnanes and esters thereof. 3,152,119, 10-6-64, Cl. 260-239.5.
- Bernstein, Stanley, to General Electric Co. Flaw detection apparatus using two detectors to assure unbalance in a comparison circuit. 3,158,744, 11-24-64, Cl. 250-83.6.
- Bernstein, Ursula J. H., J. W. Ducker, B. Ellis, and V. Petrow, to The British Drug Houses Ltd. 4-acetylthio and 4-aryloxythio derivatives of 3-keto-4-steroids and process for preparing same. 3,154,542, 10-27-64, Cl. 260-239.55.
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- Bergquist, Arthur E. Fruit picking apparatus. 3,161,007, 12-15-64, Cl. 56-332.
- Bergquist, Leonard G., to National-Standard Co. Coil package. 3,160,275, 12-8-64, Cl. 206-59.
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- Berresheim, Alexander, and A. Eder, to Bölkow-Entwicklungen Kommanditgesellschaft. Actuator. 3,130,945, 4-28-64, Cl. 244-42.
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- Berridge, Norman J., to National Research Development Corp. Process for the manufacture of cheese curd and of casein. 3,120,443, 2-4-64, Cl. 99-116.
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- Berrie, Allstair H., V. D. Poole, and F. A. Waite, to Imperial Chemical Industries Ltd. Water-soluble fiber reactive dyestuffs having two chromophoric groups and linked together through triazine or pyrimidine rings. 3,118,869, 1-21-64, Cl. 260-146.
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- Berry, Catherine M. Audio viewer equipment. 3,141,374, 7-21-64, Cl. 88-28.
- Berry, Clifford E.: See—
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- Berry, Daniel E., to Coach's Sporting Goods Corp. Isometric contraction exercise apparatus. 3,119,614, 1-28-64, Cl. 272-79.
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- Berry, Jim S., to The Procter & Gamble Co. Salts of bis-sulfanyl carbanions, process for their preparation, and reactions of said salts with organic halides. 3,124,618, 3-10-64, Cl. 260-607.
- Berry, Joe R., to Lowell Davis. Pumping shock absorber. 3,160,111, 12-8-64, Cl. 103-202.
- Berry, John C. Hosiery board and package. 3,116,826, 1-7-64, Cl. 206-46.
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- Berry, Melvin D., to Radio Corp. of America. Device for cleaning internal tubular surface. 3,124,820, 3-17-64, Cl. 15-104.09.
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- Berry, Morris J., and L. Wells. Nursing bottle container and support. 3,163,194, 12-29-64, Cl. 150-52.
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- Berry, Ronald: See—
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- Berry, Roy D., to The International Nickel Co., Inc. Au-Cu-Pd brazing alloy. 3,136,633, 6-9-64, Cl. 75-165.
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- Berry, Virgil J., Jr., to Pan American Petroleum Corp. Method of forming underground combustion front. 3,126,956, 3-31-64, Cl. 166-11.
- Berry, Walter V. Fuel gas and oxygen injection lance employing webbed coolant deflectors. 3,118,608, 1-21-64, Cl. 239-132.
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- Bert, Samuel. Snow cone machine. 3,145,878, 8-25-64, Cl. 222-146.
- Bertele, Ludwig J. Wide angle objective. 3,154,628, 10-27-64, Cl. 88-57.
- Bertell, Paul, J. B. Friedenberg, and A. V. Palermo, to Standard Mirror Co., Inc. Outboard rear vision mirror for trucks and the like. 3,132,201, 5-5-64, Cl. 88-98.
- Bertels, Josef, to Wibau Westdeutsche Industrie- und Strassenbau-Maschinen-Gesellschaft m.b.H. Tilttable transport container for pourable bulk material. 3,124,265, 3-10-64, Cl. 220-1.5.
- Bertels, Josef, to Wibau Westdeutsche Industrie- u Strassenbau-Maschinen-Gesellschaft m.b.H. Transport container for liquids. 3,133,677, 5-19-64, Cl. 222-185.
- Berthelot, Arthur P., W. J. Clements, and J. P. Jason, to Clements Mfg. Co. Handle and skid means for a floor machine. 3,155,996, 11-10-64, Cl. 15-49.
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- Berthiez, Charles W., to Innocenti Soc. Gen. per l'Industria Metallurgica e Meccanica. Milling and boring machine with detachable tool head carrying arm. 3,137,207, 6-16-64, Cl. 90-11.
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- Berthou, Jean, P. Mollard, and R. Papp, to Societe d'Electrochimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for production of acrylate from fluorinated compounds in gases. 3,132,921, 5-12-64, Cl. 23-88.
- Bertin, Andre, and C. Delacoste, to Delacoste & Cie. Apparatus for supplying rotary molds with fluid during rotation. 3,117,346, 1-14-64, Cl. 18-26.
- Bertin, Daniel: See—
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- Bertin, Jean H.: See—
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- Bertin, Jean H., to Societe Bertin & Cie. Ground effect machine with curtain forming injector means. 3,130,804, 4-28-64, Cl. 180-7.
- Bertin, Jean H., to Societe Bertin & Cie. Supporting device using a layer of fluid under pressure. 3,140,753, 7-14-64, Cl. 180-7.
- Bertin, Jean H. and E. Dubois, to Societe Bertin & Cie, and Etablissement Public D'it: Aeroport de Paris. Directing nozzle for discharging gas along the surface of the ground. 3,118,604, 1-21-64, Cl. 239-14.
- Bertin, Jean H., and B. J. M. Salmon, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Flameholder of the eliminable fluid-screen type. 3,136,124, 6-9-64, Cl. 60-39.72.
- Bertling, Ronald J., to McGraw-Edison Co. Switch operating means. 3,126,756, 3-31-64, Cl. 74-479.
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- Bertolini, William A.: See—
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- Bertolini, William A., to Highway Trailer Industries, Inc. Compression door seal. 3,161,925, 12-22-64, Cl. 20-69.
- Bertolini, William A., to Highway Trailer Industries, Inc. Bogie spring equalizing construction. 3,163,442, 12-29-64, Cl. 280-104.5.
- Bertozzi, Marco J., Sr. Motorized pack carrier. 3,135,346, 6-2-64, Cl. 180-19.
- Bertram, Benjamin Q., to The Sperry Gyroscope Co., Ltd. Automatic copying machines. 3,129,640, 4-21-64, Cl. 90-13.
- Bertram, Joseph J., to Burndy Corp. Releasable locking connector. 3,125,396, 3-17-64, Cl. 339-217.
- Bertram, Leroy W.: See—
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- Bertram, Sidney, and S. L. Hasin, to Thompson Ramo Wooldridge Inc. Method and apparatus for exposing photosensitive material. 3,131,020, 4-28-64, Cl. 346-110.
- Bertram, Wallace H. Compact cot. 3,134,987, 6-2-64, Cl. 5-111.
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- Bertrand, Howard G. Protective enclosure for service station dispensers. 3,128,914, 4-14-64, Cl. 222-146.
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- Bertuch, Charles J., and N. H. Meyers, to International Business Machines Corp. Superconductive in-line gating devices and circuits. 3,145,310, 8-18-64, Cl. 307-88.5.
- Bertwall Gypsum Co.: See—
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- Berty, Jozsef M.: See—
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- Berwin, Ted W., and F. F. Liu, to North American Aviation, Inc. Dyna-electronic compensator. 3,148,537, 9-15-64, Cl. 73-71.4.
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- Berylin, Gerald E. Heat compensated support for an elongated element. 3,128,078, 4-7-64, Cl. 248-55.
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- Bertz, Max. Ring and roller pulverizing apparatus. Re. 25,552, 4-14-64, Cl. 241-118.
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- Besenick, William N., to Burroughs Corp. Printer inking device. 3,120,804, 2-11-64, Cl. 101-364.
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- Jones, Wesley N., and Beser. 3,144,618.
- Besley-Wells Corp.: See—
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- Besnyo, George F., to Northern Electric Co. Ltd. Collapsible cop holder. 3,143,308, 8-4-64, Cl. 242-46.2.
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- Besse, Carl H. Paraffin scraper and tool for applying. 3,156,286, 11-10-64, Cl. 153-32.
- Besser, Eli D., to Marvell Industries. Multi-purpose cleaner-germicide-deodorizer composition. 3,118,842, 1-21-64, Cl. 252-106.
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- Beumkes, Tennis, to Algemeene Kunstzijde Unie, N.V. Dish mop. 3,122,768, 3-3-64, Cl. 15-244.
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- Beyer, Irwin R. Power operated grass raker. 3,125,844, 3-24-64, Cl. 56-27.
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- Beyer, Karl H., to Merck & Co., Inc. Method of inhibiting gastro-intestinal irritation. 3,129,137, 4-14-64, Cl. 167-55.
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- Bibeau, Emile L. Golf target with inflatable support means. 3,156,471, 11-10-64, Cl. 273-176.
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- Bickerdike, Robert L., A. R. G. Brown, G. Hughes, W. Johnson, and W. Watt, to United Kingdom Atomic Energy Authority. Process of making an impermeable composite carbon tube. 3,132,979, 5-12-64, Cl. 156-89.
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- Bickling, John B., to Merck & Co., Inc. N-2-benzothiazolyl-sulfonyl-benzamide. 3,139,436, 6-30-64, Cl. 260-306.6.
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Finn, William W., and Bicknell. 3,137,424.
- Bicknell, John A., to S. D. Warren Co. Method and apparatus for coating paper. 3,136,652, 6-9-64, Cl. 117-60.
- Biddison, Albert M. Combined rod holder and hook setting device. 3,154,875, 11-3-64, Cl. 43-15.
- Biddle, James G., Co.: *See*—
Rights, Herbert T. 3,156,798.
- Bideau, Max, to Eastman Kodak Co. Photographic apparatus with automatic exposure control. 3,143,053, 8-4-64, Cl. 95-64.
- Biderman, Adolph M., to Electro Development Co., Inc. Clothes drier static removal apparatus. 3,161,479, 12-15-64, Cl. 34-1.
- Biderman, Benjamin B., and C. O. Feigleson, to Collins Radio Co. Transistor servomotor drive circuit. 3,155,890, 11-3-64, Cl. 318-29.
- Biderman, Nat. to Liberty Umbrella Co., Inc. Windproof umbrella with catch. 3,156,249, 11-10-64, Cl. 135-20.
- Bidlack, Jerald D., to Cadillac Gage Co. Servo motor damper. 3,142,230, 7-28-64, Cl. 91-422.
- Bidopa, Joseph L. Cigarette box. 3,130,893, 4-28-64, Cl. 229-20.
- Bieber, Herman: *See*—
Eldib, Ibrahim A., Bieber, Adams, Hamner, and Kimberlin. 3,153,623.
- Bieber, Phillip. Horse jump with simulated brush. 3,123,046, 3-3-64, Cl. 119-29.
- Bieber, Phillip. Breakaway rail for race tracks. 3,127,870, 4-7-64, Cl. 119-15.5.
- Bieber, Robert D. Reel device. 3,128,962, 4-14-64, Cl. 242-86.5.
- Bieber, Samuel: *See*—
Hitchings, George H.; Ellison, and Bieber. 3,163,639.
- Bieda, Bruce J. Drapery hanger. 3,142,858, 8-4-64, Cl. 18-57.6.
- Biedenstein, Vincent G.: *See*—
Myers, Vernon L., Biedenstein, and Nelson. 3,130,872.
- Biedenstein, Vincent G., P. J. Ditto, and H. H. Ellerbrock, to R. C. Can Co. Break-away type closure for a container. 3,163,317, 12-29-64, Cl. 220-54.
- Biederman, Edwin W., Jr., and B. Heinze, to Cities Service Research and Development Co. Geochemical exploration. 3,149,068, 9-15-64, Cl. 210-31.
- Biedess, Anthony R., to Goodman Mfg. Co. Stabilized mounting for driven steered wheels of rock loading machines. 3,137,360, 6-16-64, Cl. 180-44.
- Biedinger, Henry J., to The Syracuse Stamping Co., Inc. Bearing cage. 3,141,711, 7-21-64, Cl. 308-201.
- Biegel, Donald R., to Datanamics, Inc. Data recording machine. 3,135,461, 6-2-64, Cl. 234-45.
- Biegel, Donald R., to Dashew Business Machines, Inc. Source punching device. 3,143,288, 8-4-64, Cl. 234-45.
- Bieger, Franz: *See*—
Weitenhiller, Hellmuth, and Bieger. 3,138,440.
Weitenhiller, Hellmuth, Bieger, and Schödl. 3,128,163.
- Biehl, Arthur T.: *See*—
Mainhardt, Robert, and Biehl. 3,163,541.
- Biehle, Oliver F.: *See*—
Hodgeman, Herbert H., and Biehle. 3,126,917.
- Biehm, Harold B. Post or pole anchorage. 3,159,248, 12-1-64, Cl. 189-31.
- Bieker, Harry G. Semi-automatic drill press assembly and method of drilling stacked sheets. 3,120,136, 2-4-64, Cl. 77-32.2.
- Bieker, Lawrence W.: *See*—
Albert, Frank P., Bieker, and Bowcutt. 3,159,911.
- Biel, John H.: *See*—
Robertson, Jerry E., and Biel. 3,153,614.
- Biel, John H., to Lakeside Laboratories, Inc. Method of inducing analgesia by 4-(p-chlorophenyl)-1,2,3,6-tetrahydropyridine. 3,125,488, 3-17-64, Cl. 167-65.
- Biel, John H., to Lakeside Laboratories, Inc. Piperazino-alkyl glycolates. 3,125,575, 3-17-64, Cl. 260-268.
- Biel, John H., to Lakeside Laboratories, Inc. 6-(piperazino-alkyl) 10,11-dihydro-5H-dibenz (B,F) azepines, processes of producing same and uses thereof. 3,125,576, 3-17-64, Cl. 260-268.
- Biel, John H., to Lakeside Laboratories, Inc. N-substituted piperazinoalkyl glycolates. 3,125,577, 3-17-64, Cl. 260-268.
- Biel, John H., to Colgate-Palmolive Co. Aromatic amino anti-spasmodic compounds. 3,135,797, 6-2-64, Cl. 260-570.6.
- Biel, John H., to Lakeside Laboratories, Inc. Diuretic combinations containing a thiazide and a mercurial. 3,137,625, 6-16-64, Cl. 167-65.
- Biel, John H., to Colgate-Palmolive Co. Alpha (3,4 dihydroxy phenyl)-beta-(N-3,14'-methylenedioxy-phenyl)-alkyl-amino ethanols. 3,139,441, 6-30-64, Cl. 260-340.5.
- Biel, John H., to Colgate-Palmolive Co. Hydrazides with 5-pyrrolidone-2-carboxylic acid. 3,153,656, 10-20-64, Cl. 260-326.3.
- Biel, John H., to Colgate Palmolive Co. Piperazinoalkyl esters of 9-hydroxyfluorene-9-carboxylic acid. 3,162,637, 12-22-64, Cl. 260-268.
- Biel, John H., to Colgate Palmolive Co. 1-(5-glutamyl)-2-(phenyl)-lower alkyl hydrazines. 3,162,680, 12-22-64, Cl. 260-518.
- Biel, John H., and C. I. Judd, to Lakeside Laboratories, Inc. 1,4-benzodioxane-2-carboxamides. 3,117,978, 1-14-64, Cl. 260-340.3.
- Biel, John H., and W. K. Hoya, to Colgate-Palmolive Co. Homopiperazinoalkyl esters. 3,141,015, 7-14-64, Cl. 260-239.
- Bielecki, Mac, and B. M. Wilner, to Aerojet-General Corp. Underwater sound generator. 3,137,835, 6-16-64, Cl. 340-8.
- Bielefeld, Rolf A., to Gast Mfg. Corp. Rotary vane pump. 3,138,321, 6-23-64, Cl. 230-152.
- Bielenberg, Waldemar: *See*—
Harnisch, Heinz, Bielenberg, and Rods. 3,148,042.
- Bielinski, George D., and L. Q. Scepanski, to General Motors Corp. Solder flux generator. 3,135,630, 6-2-64, Cl. 118-410.
- Bielinski, George D., and V. J. Brooks, to General Motors Corp. Apparatus for stripping coverings from wire. 3,139,778, 7-7-64, Cl. 81-9.51.
- Bielinski, Joseph D. Toggle operated coupling for fluid carrying conduits. 3,140,105, 7-7-64, Cl. 285-71.
- Biello, Stephen J., and H. Lindeboom, to Sealco, Inc. Two way check valve. 3,153,423, 10-20-64, Cl. 137-493.5.
- Bielski, Alex J., to General Instrument Corp. Precise magnetic head positioning device for a memory drum assembly. 3,158,848, 11-24-64, Cl. 340-174.1.
- Bien, Hans-Samuel: *See*—
Wunderlich, Klaus, Bien, and Baumann. 3,134,781.
- Bienert, Jacobus, and H. A. van Bakel, to North American Phillips Co., Inc. Device for coating the inner surfaces of bulbs for incandescent lamps and discharge tubes with a powder. 3,126,300, 3-24-64, Cl. 118-49.1.
- Bienstock, Daniel, and J. H. Field, to United States of America, Interior. Process for removing sulfur dioxide from gases. 3,150,923, 9-28-64, Cl. 23-2.
- Bierenfeld, Josef, to Square D Co. Insert for a switch button. 3,154,661, 10-27-64, Cl. 200-167.
- Bierl, Hans, to E. A. Olsson. Apparatus for accomplishing mold movement in continuous casting machines. 3,154,815, 11-3-64, Cl. 18-28.
- Biermann, David, to Hartzell Propeller, Inc. Variable pitch propeller. 3,156,301, 11-10-64, Cl. 170-160.14.
- Biermann, Wendell J., to Berylym Ltd. (no personal liability). Beryllium oxide extraction process. 3,159,453, 12-1-64, Cl. 23-18.
- Biermann, William A., L. R. Germanotta, and E. V. Madritsch, to Controls Co. of America. Sequence control for electric circuits. 3,161,758, 12-15-64, Cl. 219-480.
- Biermeier, Hans: *See*—
Hofman, Wilfried, Pfelfer, and Biermeier. 3,142,238.
- Biernat, Walter M., to Wells-Gardner Electronics Corp. Molecular storage unit. 3,119,099, 1-21-64, Cl. 340-173.
- Bieschke, Hillard J.: *See*—
Petrick, Edward J., and Bieschke. 3,140,742.
- Biesecker, Donald L., to Illinois Tool Works Inc. Quarter turn fastener. 3,123,389, 3-3-64, Cl. 292-218.
- Biesecker, Donald L., to Illinois Tool Works Inc. Cable fastener assembly. 3,139,768, 7-7-64, Cl. 74-501.
- Biffani, Ettore. Compact hand-operated family type washing machine. 3,129,575, 4-21-64, Cl. 68-132.
- Big Boy Mfg. Co., a division of Seidellhuber Steel Rolling Mills Corp.: *See*—
Persinger, Laverne O. and M. L. 3,121,386.
- Bigelow, Bryant. Pipe construction. 3,128,776, 4-14-64, Cl. 131-184.
- Bigelow, Charles E. Cleat. 3,126,859, 3-31-64, Cl. 114-218.
- Bigelow, Herbert L.: *See*—
Muse, John F., and Bigelow. 3,131,764.
- Bigelow, Herbert L., to Baker Oil Tools, Inc. Parallel tubing string apparatus. 3,136,569, 6-9-64, Cl. 285-137.
- Bigelow, John E., to General Electric Co. Drift compensated D.C. integrator having separate selectively insertable feedback loops. 3,142,808, 7-28-64, Cl. 328-127.

- Bigelow, John E., to General Electric Co. X-ray collimator comprising a plurality of spaced plastic lamina with X-ray absorbent material coated thereon. 3,143,652, 8-4-64, Cl. 250-105.
- Bigelow, John E., to General Electric Co. Method for making a collimator for an X-ray beam. 3,143,738, 8-4-64, Cl. 29-153.5.
- Bigelow, John E., to General Electric Co. Thermally excited X-ray spectrometer. 3,163,754, 12-29-64, Cl. 250-51.5.
- Bigelow-Sanford, Inc.: *See*—
Dahlberg, Harold S., and Quinn. 3,120,082.
Harrison, Wayne T., and Carrigan. 3,157,206.
Harrison, Wayne T., and Carrigan. 3,160,176.
Kinneer, Allan H. 3,119,727.
Mueller, Helmut C. 3,122,175.
- Bigge, Henry W. Steering device for connected tractor and dolly vehicles. 3,156,487, 11-10-64, Cl. 280-426.
- Biggers, Earl H., to Patentex, Inc. Method for simultaneously throwing and knitting of yarn. 3,148,520, 9-15-64, Cl. 66-125.
- Biggl, Victor, and J. C. Simon, to Compagnie Generale de Telegraphie Sans Fil. Tropospheric radio communication system. 3,160,813, 12-8-64, Cl. 325-58.
- Biggs, James W.: *See*—
Siles, Claude J., and Biggs. 3,119,720.
- Biggs, Orrick H., D. E. Spencer, and S. C. Peek, Jr., to Sylvania Electric Products Inc. Runway lighting system. 3,162,373, 12-22-64, Cl. 240-1.2.
- Biggs, Percival R. Composition and method for preserving cut flowers. 3,122,432, 2-25-64, Cl. 71-2.4.
- Biggs, William A., Jr.: *See*—
Baxley, William H., Biggs, and Cook. 3,138,580.
- Biginelli, Oreste F. A. Multi-bank radial type machine. 3,158,035, 11-24-64, Cl. 74-49.
- Bigliano, Robert P., to E. I. du Pont de Nemours and Co. Sphymomanometer. 3,123,068, 3-3-64, Cl. 128-2.05.
- Bigo, Ernest H. P., and P. Pleschko, to International Telephone and Telegraph Corp. Logic inverter circuits. 3,124,704, 3-10-64, Cl. 307-88.5.
- Bigot, Johan A., T. A. J. Meyerink, and L. J. Revallier, to Stamicarbon N.V. Preparation of caprolactam. 3,119,814, 1-28-64, Cl. 260-239.3.
- Bihaly, Lajos: *See*—
Lockwood, Arthur W., and Bihaly. 3,145,392.
- Bihler, Frederick H., to The De Laval Separator Co. Control for automatic pipe line cleansing system. 3,119,400, 1-28-64, Cl. 134-57.
- Bijl, Aart: *See*—
Ongkiehong, Leo, Bijl, and Schurinka. 3,129,062.
- Bikales, Norbert M.: *See*—
Hauser, Martin, and Bikales. 3,155,701.
- Bikerman, Jacob J., to Yardney International Corp. Electrode for electric batteries. 3,137,594, 6-16-64, Cl. 136-30.
- Bilancal, Raymond A., to Coach and Car Equipment Corp. Vehicle seat support. 3,140,851, 7-14-64, Cl. 248-399.
- Bilancal, Raymond A., to Coach & Car Equipment Corp. Ventilated vehicle seat. 3,144,270, 8-11-64, Cl. 297-180.
- Biles, James R., D. C. Nicely, and G. W. F. Sellers, to Monsanto Co. Stabilized acrylic fabrics and method for treatment of acrylic fabrics. 3,152,919, 10-13-64, Cl. 117-138.8.
- Bilichniak, Theodore, to Technicon Instruments Corp. Compressible tube type fluid pump. 3,116,697, 1-7-64, Cl. 103-149.
- Bilisoly, Julius P.: *See*—
Stringer, Richard F., and Bilisoly. 3,121,695.
- Bill, Herbert E. Speaker enclosure. 3,135,348, 6-2-64, Cl. 181-31.
- Bill, John C., and R. W. Amidon, to United States Rubber Co. Flame resistant copolymers of an ester of a 2,3-dihalo-alkanol and an unsaturated polycarboxylic acid. 3,151,163, 9-29-64, Cl. 260-45.4.
- Billard, Paul L., and P. Maguer, to North American Phillips Co., Inc. Gamma correction method for use in television and apparatus for carrying out these methods. 3,131,254, 4-28-64, Cl. 178-5.4.
- Bille, Mario, and S. Turato. Device for glueing the upper to soles of shoes. 3,160,899, 12-15-64, Cl. 12-1.
- Bille, Steven T., and K. Heinz, to The Curtis Publishing Co. Sampler clock with electric movement. 3,132,469, 5-12-64, Cl. 58-53.
- Billen, Ernest E. G., and G. L. H. Mattens. Derivatives of substituted coumarin. 3,141,894, 7-21-64, Cl. 260-343.2.
- Billen, Peter: *See*—
Elger, Ronald J., Billen, Vom Dorp, and Buse. 3,156,359.
- Biller, Edm. Process for carrying out chemical reactions in a layer of sprayed whirling liquid. 3,131,212, 4-28-64, Cl. 260-468.
- Billet, Edward H., to Varityper Corp. Method of making up printed matter. 3,137,573, 6-16-64, Cl. 96-27.
- Billette, Henry R., to Sloan Valve Co. Remotely actuated flush valve system. 3,117,588, 1-14-64, Cl. 137-359.
- Billette, Henry R., to Sloan Valve Co. Valve actuation mechanisms. 3,117,589, 1-14-64, Cl. 137-360.
- Billette, Henry R., to Sloan Valve Co. Remote controlled hydraulic valve actuating means. 3,117,761, 1-14-64, Cl. 251-57.
- Billette, Henry R., to Sloan Valve Co. Automatically self-cleaning shower heads. 3,130,911, 4-28-64, Cl. 239-109.
- Billette, Henry R., R. E. Campbell, and H. I. Trumble, to Sloan Valve Co. Brake cylinder release valves. 3,145,064, 8-18-64, Cl. 303-69.
- Billette, Richard J., and S. R. Morrison, to Honeywell Inc. Method of making a semiconductor device. 3,157,937, 11-24-64, Cl. 29-23.3.
- Billey, Leino H., to Donaldson Co., Inc. Means to aspirate dust from an air cleaner. 3,137,553, 6-16-64, Cl. 55-431.
- Bill, Nading. Automatic teller safety shield and capture cage. 3,148,640, 9-15-64, Cl. 109-5.
- Billie-Knudsen, Klaus, to Danfoss ved ing. M. Clausen. Pivoted snap switch having manual actuating lever. 3,117,198, 1-7-64, Cl. 200-87.
- Billie-Knudsen, Klaus, to Danfoss ved ing. M. Clausen. Thermostat with adjustable temperature range and combined semi-automatic operator. 3,160,725, 12-8-64, Cl. 200-140.
- Billig, Wayne E. Boat with hydrofoil and wings. 3,157,146, 11-17-64, Cl. 114-66.5.
- Billings, Orman B., and M. I. Hampton, to Johnson & Johnson. Bandage. 3,135,258, 6-2-64, Cl. 128-91.
- Billings, Roy O. Excavators. 3,143,228, 8-4-64, Cl. 214-147.
- Billings, Roy O. Excavators. 3,143,229, 8-4-64, Cl. 214-147.
- Billingsley, John G. S., to E. I. du Pont de Nemours and Co. Apparatus for slitting film and removing the strips from the cutting zone under unequal tension. 3,144,216, 8-11-64, Cl. 242-56.4.
- Billingsley, John G. S., to E. I. du Pont de Nemours and Co. Method and apparatus for winding. 3,157,371, 11-17-64, Cl. 242-56.2.
- Billingsley, John G. S., L. R. Mummery, and S. A. Rogers, to E. I. du Pont de Nemours and Co. Cutting apparatus with adjustable blade means. 3,119,294, 1-28-64, Cl. 83-174.
- Billon & Cie: *See*—
Billon, Jacques. 3,153,892.
- Billon, Jacques, to Billon & Cie. Twisting machines executing a false twist. 3,153,892, 10-27-64, Cl. 57-34.
- Billis, Roman F. Manipulatable teaching aid. 3,117,384, 1-14-64, Cl. 35-73.
- Billman, John H., N. S. Janetos, and R. Chernin, to Indiana University Foundation. Copper complexes of N-(2-amino-hydrocarbyl) sulfonamides. 3,133,945, 5-19-64, Cl. 260-438.
- Billman, Roger O.: *See*—
Lindquist, Robert H., and Billman. 3,140,925.
- Bills, Charles T.: *See*—
Hyman, Joseph B., Kordzinski, and Bills. 3,131,157.
- Bills, Marius W. Lint pick-up device. 3,156,938, 11-17-64, Cl. 15-104.
- Billy, Jean-Marc: *See*—
McKay, Arthur F., and Billy. 3,142,677.
- Billocq, Georges A., to Forano Ltd. Centering mechanism for paper rolls and the like. 3,129,823, 4-21-64, Cl. 214-1.
- Bilodeau, Wilfred J., 25% to E. P. Schellin. Method of making or repairing a bowling pin. 3,135,639, 6-2-64, Cl. 156-68.
- Bilsback, Malvin S.: *See*—
Houldin, Russell J., and Bilsback. 3,154,730.
- Bilsky, Earl, to Celanese Corp. of America. Method and apparatus for producing a novelty bulked yarn. 3,118,269, 1-21-64, Cl. 57-34.
- Bilsky, Earl, and L. R. Blake, to Celanese Corp. of America. Loopy, gas jet bulked yarn and method. 3,150,481, 9-29-64, Cl. 57-140.
- Bilton, Percy Ltd.: *See*—
Woolcott, Reginald J. 3,122,637.
- Bily, Clément, and J. Lescarboua, to La Telemacanique Electrique. Re-settable switch device. 3,144,530, 8-11-64, Cl. 200-76.
- Bilyeu, Archie E., to Aladdin Mfg. Co. Device for propagation of scent for attracting wild game. 3,118,650, 1-28-64, Cl. 21-117.
- Bimber, Russell M., to Diamond Alkali Co. Preparation of aromatic acid halides. 3,140,246, 7-7-64, Cl. 204-158.
- Bimber, Russell M., H. Bluestone, and I. Rosen, to Diamond Alkali Co. Methanethianaphthene compounds. 3,130,199, 4-21-64, Cl. 260-330.5.
- Bimber, Russell M., and H. Bluestone, to Diamond Alkali Co. Halo-thianaphthene-1,1-dioxides. 3,136,782, 6-9-64, Cl. 260-330.5.
- Bindel, Paul: *See*—
Schieber, Hans, and Bindel. 3,133,582.
- Bindematt Corp.: *See*—
Dennis, Ralph E. 3,162,198.
- Binder, George G., Jr.: *See*—
Weiss, Malcolm A., Cohen, and Binder. 3,138,203.
- Binder, George G., Jr., and C. D. Russell, to Jersey Production Research Co. Secondary oil recovery process. 3,149,669, 9-22-64, Cl. 166-9.
- Binder, Hans, and R. Heinle, to Rottweiler Kunstseidefabrik AG. Method for the manufacture of nitrogenous organic phosphorus compounds. 3,127,445, 3-31-64, Cl. 260-551.
- Binder, Hans, O. Koch, and J. Altpeter, to Rutgerswerke-Aktiengesellschaft. Process for the dehydration of hydroxyethyl-substituted pyridines, quinolines, and isoquinolines. 3,149,116, 9-15-64, Cl. 260-283.
- Binder, Johann, and R. Duren, to Volkswagenwerk Aktiengesellschaft. Plug connector. 3,139,318, 6-30-64, Cl. 339-258.
- Binder Magnete K. G.: *See*—
Binder, Wilhelm, and Hauer. 3,158,242.

- Blinder, Paul J., to General Electric Co. Electric heater and support assembly. 3,154,669, 10-27-64, Cl. 219-404.
- Binder, Rolf, to Rieter Machine Works Ltd. Bale rasp. 3,135,022, 6-2-64, Cl. 19-80.
- Binder, Wilhelm, and R. Hauer, to Binder Magnete K. G. Miniature clutch. 3,158,242, 11-24-64, Cl. 192-84.
- Binding, Kenneth W., to Market Forge Co. Vehicle-carrying rack. 3,132,780, 5-12-64, Cl. 224-42.1.
- Binding, Kenneth W., to Market Forge Co. Car top luggage carrier. 3,153,501, 10-20-64, Cl. 224-42.1.
- Bindler, Ben, to J. Freezer & Son, Inc. Sport shirts. 3,137,860, 6-23-64, Cl. 2-115.
- Bindler, Jakob E., Model, and R. Zinkernagel, to J. R. Gelgy, A.-G. 2-Imino-1,3-di-N-heterocycles. 3,121,645, 2-18-64, Cl. 117-138.5.
- Binford, Jack C., to FMC Corp. Spinning funnel. 3,143,845, 8-11-64, Cl. 57-78.
- Binford, William W., to See—
Kamlet, Jonas, and Binford. 3,140,956.
- Bing, Herbert A., and M. S. Dietz, to Polaroid Corp. Photographic apparatus. 3,125,937, 3-24-64, Cl. 95-10.
- Bingel, Robert L., to Mead Specialties Co., Inc. Muffler and method. 3,137,365, 6-16-64, Cl. 181-71.
- Bingham, D. W., and Co. Proprietary Ltd.: See—
Bingham, David W. 3,127,071.
Bingham, David W. 3,139,914.
- Bingham, David W., to D. W. Bingham & Co. Proprietary Ltd. Can filling apparatus. 3,127,071, 3-31-64, Cl. 222-380.
- Bingham, David W., to D. W. Bingham and Co. Proprietary Ltd. Syruping apparatus for use in connection with the canning of fruit, vegetables and other food products. 3,139,914, 7-7-64, Cl. 141-45.
- Bingham, George H., Jr., to Cambridge Rubber Co. Labeled shoe sole and method of making the same. 3,137,749, 6-16-64, Cl. 264-244.
- Bingham, George H., Jr., to Cambridge Rubber Co. Hollow display form. 3,137,875, 6-23-64, Cl. 12-128.
- Bingham, George H., Jr., to Cambridge Rubber Co. Outer sole for footwear. 3,138,881, 6-30-64, Cl. 36-30.
- Bingham, George H., Jr., to Cambridge Rubber Co. Shoe having stitched-reversed insole. 3,147,558, 9-8-64, Cl. 36-14.
- Bingham, George H., Jr., to Cambridge Rubber Co. Machine-made platform-style shoe. 3,147,559, 9-8-64, Cl. 36-14.
- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a boot last. 3,157,899, 11-24-64, Cl. 12-146.
- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a hollow mold. 3,158,558, 11-24-64, Cl. 204-8.
- Bingham, Richard, Humidor. 3,135,565, 6-2-64, Cl. 312-31.
- Bingham, Robert E., to General Tire & Rubber Co. Continuous polymerization process for vinyl monomers. 3,125,553, 3-17-64, Cl. 260-87.1.
- Bingham, Sidney H. Hybrid rapid transit truck. 3,120,820, 2-11-64, Cl. 105-215.
- Bingham, Sidney H. Transportation truck and vehicle. 3,120,821, 2-11-64, Cl. 105-215.
- Bingham, Sidney H. Adjustable beamway. 3,148,632, 9-15-64, Cl. 104-120.
- Bingman, Richard T.: See—
Young, Ralph C., and Bingman. 3,123,169.
- Binkert, Carl F., and L. H. Laine, to Libbey-Owens-Ford Glass Co. Method of bending glass sheets or plates. 3,160,491, 12-8-64, Cl. 65-107.
- Binkis, Alexander M., to Zenith Radio Corp. Automatic frequency control for a transistor television receiver. 3,136,955, 6-9-64, Cl. 331-8.
- Binkowski, George, to Farrel-Birmingham Co., Inc. Doctor blade for calendar roll. 3,122,090, 2-25-64, Cl. 100-158.
- Binks Mfg. Co.: See—
Jones, Walter M. 3,155,320.
- Binner, Carl J., to Morgan Co., Inc. Door. 3,121,263, 2-18-64, Cl. 20-35.
- Binner, Christian R., and C. W. Hammond, to United States of America, Atomic Energy Commission. Heat exchanger. 3,139,927, 7-7-64, Cl. 165-159.
- Binning, Robert C.: See—
Martin, Eugene C., Binning, Adams, and Lee. 3,140,256.
Sharp, Dexter B., and Binning. 3,153,058.
- Binnings, Clem B., to Whitney National Bank of New Orleans. Expandable mandrel. 3,145,541, 8-25-64, Cl. 61-53.72.
- Binns, Jack N.: See—
Engelmann, Richard H. 3,137,163.
- Binns, Jack N. Contour roll-turning lathe drive mechanism and gear shifting assembly. 3,127,801, 4-7-64, Cl. 82-29.
- Binns, Jack N. Coupling box assembly. 3,140,628, 7-14-64, Cl. 82-40.
- Binns, Jack N. Hydraulic control system for contour roll-turning lathe. 3,150,549, 9-29-64, Cl. 82-14.
- Binsfeld, Arthur J. Pneumatic filler-sealing devices. 3,128,689, 4-14-64, Cl. 98-94.
- Bio-Science Laboratories: See—
Davis, John E. 3,159,384.
- Birch Bros., Inc.: See—
Birch, Clifford W. 3,157,935.
- Birch, Clifford W., to Birch Bros., Inc. Cloth expanding roll mechanism. 3,157,935, 11-24-64, Cl. 26-63.
- Birch, Frederick, to Raphaels Ltd. Grinding machines. 3,153,883, 10-27-64, Cl. 51-160.
- Birch, Herbert M., and D. H. Gattone. Self-contained push button applicator. Re. 25,585, 5-26-64, Cl. 132-116.
- Birch-Jensen, Ake, and H. Ekman, deceased (by G. Ekman), to Svenska Sockerfabriks Aktiebolaget. Dielectrically heated drying apparatus through which the articles to be dried are continuously advanced. 3,161,480, 12-15-64, Cl. 34-1.
- Birch-Jensen, Hans E. Apparatus for recording poultry egg production. 3,123,044, 3-3-64, Cl. 119-1.
- Birch-Jensen, Hans E. Holder for egg production recording apparatuses. 3,162,175, 12-22-64, Cl. 119-1.
- Birch, John W.: See—
Rauen, Math W., Teed, and Birch. 3,147,791.
- Birch, Raymond E.: See—
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McCreight, Donald O., and Birch. Re. 25,572.
Wishon, Berhl E., Birch, and Stock. 3,146,115.
- Birch, Robert R., and T. J. Zylbert, to The Singer Co. Drive means for sewing machines. 3,157,142, 11-17-64, Cl. 112-220.
- Birchall, John M.: See—
Haszeldine, Robert N., Parkinson, and Birchall. 3,156,715.
- Birchall, Thomas D., to G. W. Hume Co. Can-sorting device. 3,128,879, 4-14-64, Cl. 209-111.5.
- Birchall, Thomas F.: See—
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- Birchough, Herbert: See—
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- Birchmiller, Kenneth E.: See—
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- Birchmiller, Lloyd M., and K. E., to L. B. Products Co. Poultry shackles. 3,156,947, 11-17-64, Cl. 17-44.1.
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- Bird Electronic Corp.: See—
Bird, James R., Frederico, and Heller. 3,158,823.
- Bird, Forrest M., and H. L. Pohndorf. Device for aiding in the administration of gaseous anesthetic agents. 3,156,288, 11-10-64, Cl. 128-29.
- Bird, George L., and R. A. Brown, to Hickok Mfg. Co., Inc. Safety seat harness for vehicle. 3,125,375, 3-17-64, Cl. 297-389.
- Bird, George R., to Polaroid Corp. Gas microcell in the form of a light pipe for use with an infrared spectrometer. 3,120,608, 2-4-64, Cl. 250-43.5.
- Bird, Jack R., and M. A. Wheeler, to Rolls-Royce Ltd. Method of heat treating nickel base alloys. 3,146,136, 8-25-64, Cl. 148-162.
- Bird, James R., B. D. Frederico, and H. H. Heller, to Bird Electronic Corp. Coaxial line coupling and partition device. 3,158,823, 11-24-64, Cl. 333-22.
- Bird, Joseph L., and L. R. Oliver. Grinding or abrading tool. 3,145,511, 8-25-64, Cl. 51-206.
- Bird, Lester F., to Engelhard Hanovia, Inc. Stabilization circuit for arc lamps. 3,143,701, 8-4-64, Cl. 323-89.
- Bird Machine Co.: See—
Cannon, Madison M., Dick, and Salomon. 3,149,067.
Carvill, Richard E. 3,122,767.
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Stock, Irwin R. 3,139,404.
- Bird, Martin J., to The Faulhaber Co. Cycle saddle. 3,163,465, 12-29-64, Cl. 297-209.
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Vogel, Virgil W., and P. W. 3,124,462.
- Bird, Thomas C. Machine for forming a panel consisting of a compressed multiple piece core having flexible sheet facings. 3,118,802, 1-21-64, Cl. 156-358.
- Bird, Walter W., to Birdair Structures, Inc. Sectionalized air supported structures. 3,116,746, 1-7-64, Cl. 135-1.
- Bird, Walter W., to United States of America, Air Force. Inflatable tracking antenna. 3,147,478, 9-1-64, Cl. 343-765.
- Bird, Walter W., P. A. Strobel, P. I. Rongved, and D. P. Zamore. Building construction. 3,139,464, 6-30-64, Cl. 264-32.
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- Bird, William G., to Savage & Parsons Ltd. Apparatus for the measurement and integration of fluid-velocities. 3,116,639, 1-7-64, Cl. 73-194.
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- Birdsall, Clair M.: See—
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- Birdshoro Corp.: See—
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Wetzel, Joseph W. 3,146,877.
- Birenbaum, Leo, to Polytechnic Institute of Brooklyn. H-guide attenuator. 3,155,929, 11-3-64, Cl. 333-81.
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Cull, William. 3,151,473.
Freeman, Leslie G. 3,123,990.
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- Birge Co., Inc.: See—
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- Birge, William T., to Kelsey-Hayes Co. Shoe brake construction with low-friction bearing means. 3,126,984, 3-31-64, Cl. 188-78.
- Birge, William T., to Kelsey-Hayes Co. Electric brake actuating mechanism. 3,134,463, 5-26-64, Cl. 188-138.

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- Birkbeck, Guy, to North American Phillips Co., Inc. Apparatus for automatic mounting of electronic components. 3,149,401, 9-22-64, Cl. 29-33.
- Birkemeier, Henry P., to International Telephone and Telegraph Corp. Snow melting control apparatus. 3,157,358, 11-17-64, Cl. 237-1.
- Birkenbach, Eugen J.: See—
Scarnato, Thomas J., and Birkenbach. 3,152,432.
- Birkenbach, Eugen J., and D. M. O'Neill, to International Harvester Co. Open end harrow and framework therefor. 3,128,834, 4-14-64, Cl. 172-635.
- Birkenbach, Eugen J., and R. R. Motycka, to International Harvester Co. Harrow with tooth set angling device. 3,139,942, 7-7-64, Cl. 172-390.
- Birkenbach, Hans J., to International Business Machines Corp. Method for the production of thin magnetic layers with reproducible and stable properties. 3,161,946, 12-22-64, Cl. 29-155.5.
- Birkenmeyer, Robert D.: See—
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- Birkenmeyer, Robert D., P. Kagan, B. J. Magerlein, and W. P. Schneider, to The Upjohn Co. 16a-chloro-1,4-pregnadienes. 3,137,712, 6-18-64, Cl. 260-397.45.
- Birkholz, Ulrich, to Siemens-Schuckwerke Aktiengesellschaft. Thermocouple, particularly for electrothermic cooling, and method of producing it. 3,137,593, 6-16-64, Cl. 136-4.
- Birkigt, Louis, to Brevets Aero-Mechaniques S.A. Gun carriages especially for anti-aircraft guns. 3,130,639, 4-28-64, Cl. 89-40.
- Birkie, Paul G. Drapery hanger. 3,137,027, 6-16-64, Cl. 16-87.2.
- Birlec-Efco (Melting) Ltd.: See—
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- Birmingham, Douglas S., to United-Carr Inc. Self locking stay mechanisms. 3,141,694, 7-21-64, Cl. 292-263.
- Birmulgham, Henry P. Mobile unit control system. 3,125,976, 3-24-64, Cl. 114-23.
- Birmingham Sound Reproducers Ltd.: See—
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- Birnbaum, Leo: See—
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- Birney, Robert H., to Ford Motor Co. Torsion bar suspension for motor vehicles. 3,150,869, 9-29-64, Cl. 267-57.
- Birr, Richard T., and E. B. Bahnsen, to Steiner American Corp. Cabinet for towel dispensers. 3,147,051, 9-1-64, Cl. 312-37.
- Birten, Vera M., B. M. Brill, and H. Terry, to Shawinigan Resins Corp. Process of preparing dry powdered vinyl ester polymer compositions and resulting product. 3,126,355, 3-24-64, Cl. 260-8.
- Birum, Gail H.: See—
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Cornell, David, and Birum. 3,155,598.
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- Birum, Gail H., J. L. Schwendeman, and R. M. Anderson, to Monsanto Co. Halogenated phosphorus esters, and process for preparing them. 3,132,169, 5-5-64, Cl. 260-461.
- Birum, Gail H., and G. A. Richardson, to Monsanto Co. Process for making 1-cyclohexenyl phosphonic acid diesters and an intermediate compound for use therein. 3,160,650, 12-8-64, Cl. 260-461.
- Birum, Herbert L., Jr.: See—
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- Bisbee, Gail A., and M. A. Sanborn, to International Business Machines Corp. Container for apertured articles. 3,149,721, 9-22-64, Cl. 206-72.
- Bisbing, Robert H.: See—
Barry, John K., and Bisbing. 3,123,880.
- Bisblis, James J., to United States Steel Corp. Device for testing a pinhole detector. 3,117,479, 1-14-64, Cl. 83-308.
- Biscardi, Charles T.: See—
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- Bischof, Werner, T. L. Doktor, and Z. Legedza, to Bell Telephone Laboratories, Inc. Multifrequency receiver. 3,140,357, 7-7-64, Cl. 179-84.
- Bischoff, Frederick: See—
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- Bischoff, Leo E., and A. Schollnick, to General Motors Corp. Windshield washer pump assembly. 3,147,632, 9-8-64, Cl. 74-128.
- Bischoff, Thomas J., and R. A. Hartwig. Suspension mechanism. 3,136,565, 6-9-64, Cl. 280-96.2.
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- Biser, David, to United States of America, Navy. Decade counter with analog display for use with airborne vehicle navigation means. 3,141,960, 7-21-64, Cl. 235-92.
- Bishay, Adli M., to United States of America, Atomic Energy Commission. Radiation detecting with shutter glass. 3,134,019, 5-19-64, Cl. 250-83.
- Bishay, Adli M., to United States of America, Atomic Energy Commission. Glass of high ultraviolet transmittance, method, and articles manufactured therefrom. 3,150,281, 9-22-64, Cl. 313-221.
- Bishop, Arthur E. Power steering system. 3,138,069, 6-23-64, Cl. 91-375.
- Bishop and Babcock Corp., The: See—
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- Bishop, Clarence E.: See—
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- Bishop, David A., to International Business Machines Corp. Feedback amplifier employing tunnel diode. 3,127,526, 3-31-64, Cl. 307-88.5.
- Bishop, Emerson C., and A. F. Kipper, to Devos & Reynolds Co., Inc. Measuring colorant dispenser. 3,118,568, 1-21-64, Cl. 222-43.
- Bishop, Eugene A., Jr.: See—
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- Bishop, Harold F., and M. Bock II, to Exomet Inc. Welding apparatus and process. 3,161,928, 12-22-64, Cl. 22-116.
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- Bishop, Harold F., D. E. Wiley, and M. Bock II, to Exomet Inc. Moldable exothermic composition. 3,162,558, 12-22-64, Cl. 149-2.
- Bishop, Harold P. Vacuum attachment for dental aspirator unit. 3,138,873, 6-30-64, Cl. 32-33.
- Bishop, Harold P. Tool actuated quick acting slide valve. 3,146,483, 9-1-64, Cl. 15-314.
- Bishop, Harold R., to Hydrocarbon Research, Inc. Refrigeration-heating circuit. 3,161,232, 12-15-64, Cl. 165-62.
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- Bishop, Lewis H. Machine for perforating, scoring and slicing with feed means. 3,122,040, 2-25-64, Cl. 83-84.
- Bishop, Robert H. Multiple louver damper. 3,123,098, 3-3-64, Cl. 137-601.
- Biskis, Kestutis, to International Harvester Co. Hitch linkage control mechanism. 3,123,152, 3-3-64, Cl. 172-239.
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- Bissell, Gerald. Fishing line device. 3,160,979, 12-15-64, Cl. 43-44.85.
- Bissell, James J. Retractable safety belts. 3,125,374, 3-17-64, Cl. 297-388.
- Bissonette, Alfred J., E. M. Jones, and J. B. Brombaugh, to D. H. Baldwin Co. Music enhancing systems. 3,136,853, 6-9-64, Cl. 179-1.
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- Bistrom, Frank V., to Pacific Car and Foundry Co. Tractor truck having body designed for use either as fifth-wheel mount or flat bed. 3,117,804, 1-14-64, Cl. 280-438.
- Bite-O-Lite: See—
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- Bither, Tom A., Jr., to E. I. du Pont de Nemours and Co. Ferromagnetic compositions and their preparation. 3,126,346, 3-24-64, Cl. 252-62.5.
- Bither, Tom A., Jr., to E. I. du Pont de Nemours and Co. Magnetic compositions containing iron, rhodium, and selected elements from groups II-A, III-A, IV-A, V-A and VI-A. 3,144,324, 8-11-64, Cl. 75-122.
- Bither, Tom A., Jr., to E. I. du Pont de Nemours and Co. Ferromagnetic Mn-Ga alloy and method of production. 3,147,112, 9-1-64, Cl. 75-134.
- Bitter, Kenneth D., to The Black and Decker Mfg. Co. Line-pulling carriers for conduit-threading apparatus and method of fabrication thereof. 3,119,600, 1-28-64, Cl. 254-134.4.
- Bittle, Dewey D. Adjustable engine mount. 3,127,139, 3-31-64, Cl. 248-23.
- Bittle, Harold G.: See—
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- Bittman, Jess C.: See—
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- Bittmann, Eric E., to Burroughs Corp. Magnetic film non-destructive read-out. 3,154,766, 10-27-64, Cl. 340-174.
- Bittner, Donald L. Calcium determination method. 3,121,613, 2-18-64, Cl. 23-230.
- Bittner, Donald L. Titrating and mixing apparatus. 3,154,294, 10-27-64, Cl. 259-12.
- Bittner, Ernst, to The Scholl Mfg. Co., Inc. Insoles for footwear. 3,143,812, 8-11-64, Cl. 36-44.

- Bittner, Ernst, and A. Schilpp, to The Scholl Mfg. Co., Inc. Revolving floorstand. 3,158,264, 11-24-64, Cl. 211-131.
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- Bitzer, Martin, and R. A. Deibel, to Trico Products Corp. Fluid pressure accessory system. 3,151,460, 10-6-64, Cl. 60-60.
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- Blivas, Henry H. Vegetable produce cooler. 3,149,477, 9-22-64, Cl. 62-268.
- Blxby, Leo A., to Rockwell-Standard Corp. Drive axles. 3,150,532, 9-29-64, Cl. 74-391.
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- Blxby, William H., to International Business Machines Corp. Smoothing filter having balancing means for compensating internal resistance of electrolytic capacitor. 3,117,292, 1-7-64, Cl. 333-79.
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- Bjerkman, Theodore J. Grain dryer. 3,123,234, 3-3-64, Cl. 214-17.
- Bjerknerud, Lars R., O. R. Drakenberg, and C. S. von Hofsten, to Ferrolegeringar Trollhättens Aktiebolag. Methods of removing copper and related metals from sulfidic molybdenum ores and molybdenum-containing materials. 3,117,860, 1-14-64, Cl. 75-113.
- Bjork, Albin W. Collapsible bolt having spring actuated expanding plunger. 3,159,075, 12-1-64, Cl. 85-87.
- Bjork, Carl K., to The Dow Chemical Co. Explosives and method of blasting. 3,139,029, 6-30-64, Cl. 102-23.
- Bjorklund, Elmer G., to Clark Equipment Co. Saddle truck with a guided lifting frame for handling containers. 3,146,903, 9-1-64, Cl. 214-394.
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- Bjorksten, Johan: See—
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- Blabau, Robert L., J. J. De Palma, and L. V. Grandchamp, to Honeywell Inc. Method of making electrical collector means. 3,151,384, 10-6-64, Cl. 29-155.5.
- Black, Arthur. Device for preventing billowing and creeping of a bowling pin cleaning cloth. 3,163,416, 12-29-64, Cl. 273-54.
- Black Clawson Co., The: See—
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- Black, Douglas E. Apparatus for patching plastic pipe. 3,117,904, 1-14-64, Cl. 156-475.
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- Black, Harold. Flexible joint for drill string. 3,135,103, 6-2-64, Cl. 64-11.
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- Black, James A., and T. J. Rosema, to General Research, Inc. Screen stenciling machine. 3,120,180, 2-4-64, Cl. 101-124.
- Black, James E., Jr.: See—
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- Black, James G., Jr., and C. C. Rayburn, to Illinois Tool Works Inc. Apparatus for manufacture of capacitors. 3,117,364, 1-14-64, Cl. 29-25.42.
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- Black, James J., to Pullman Inc. Interconnecting unit for tandem hauling of semi-trailers. 3,151,880, 10-6-64, Cl. 280-408.
- Black, John E., to Electric Eye Equipment Co. Printing press drive control system. 3,132,295, 5-5-64, Cl. 318-163.
- Black, John M., J. Warburton, and S. R. Stiles, to Pullman Inc. Flycar carbon alkylation process. 3,160,673, 12-8-64, Cl. 260-683.59.
- Black, John O. Iceboat conversion kit. 3,139,057, 6-30-64, Cl. 114-43.
- Black, John O. Convertible aircraft structure. 3,155,343, 11-3-64, Cl. 244-17.21.
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- Black, John W., to Pemco Wheel Co. Swivel mechanism for a caster. 3,142,085, 7-28-64, Cl. 16-21.
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- Black, Owen S. Selection radio control unit. 3,153,181, 10-13-64, Cl. 318-16.
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- Lau, Erwin M. 3,133,609.
- Black, Robert E., and F. L. Green, to General Motors Corp. Radiation source and method for making same. 3,161,504, 12-15-64, Cl. 75-206.
- Black, Robert L., Jr., to Parks-Cramer Co. Traveling overhead suction cleaner. 3,138,818, 6-30-64, Cl. 15-312.
- Black Sivalls & Bryson, Inc.: See—
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- Loomer, James A., Welch, Arenson, and Scheirman. 3,123,453.
- Black, Sydney J. Combined envelope and statement form. 3,143,279, 8-4-64, Cl. 229-73.
- Black Tool, Inc.: See—
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- Black, Warren R., to American Seating Co. Manual control for a motorized hospital bed. 3,137,773, 6-16-64, Cl. 200-5.
- Black, Warren R., I. C. Folger, and R. L. Knapp, to American Seating Co. Hospital bed having a removable side guard structure. 3,125,769, 3-24-64, Cl. 5-331.
- Black, William A.: See—
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- Black, William B., and W. L., to Monsanto Co. Cyclic polymers from trimethylene diisocyanates. 3,163,624, 12-29-64, Cl. 260-77.5.
- Black, William C.: See—
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- Black, William T.: See—
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- Blackaby, Benjamin E., to The De Havilland Aircraft Co. Ltd. Gas turbine cruising and starting fuel control system. 3,151,450, 10-6-64, Cl. 60-39.14.

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- Blackburn, Charles M., and J. Dassoulas, to United States of America, Navy. Fuel pressurizations system. 3,154,093, 10-27-64, Cl. 137-255.
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- Way, Kenneth R., and Leach. 3,145,812.
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- Blackburn, Wayne E., T. D. Bryant, and D. I. Harris, to General Precision, Inc. Apparatus for detecting blood spots in eggs. 3,130,255, 4-21-64, Cl. 88-14.1.
- Blacker, Latham V. S. Flashless non-recoil gun and round. 3,128,670, 4-14-64, Cl. 89-1.7.
- Blackford, Benjamin B., to Johnson & Johnson. Adhesive tape. 3,161,554, 12-15-64, Cl. 156-242.
- Blackhall, Alexander, F. Hall, and G. H. Keats, to Imperial Chemical Industries Ltd. New metallized azo dyestuffs. 3,121,713, 2-18-64, Cl. 260-151.
- Blackham, Angus U., to National Distillers and Chemical Corp. Preparation of beta-halo carboxylic acid halides. 3,119,861, 1-28-64, Cl. 260-544.
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- Blackington, Paul A.: See—
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- Blackington, Paul A., and M. W. Burgher, to The Bendix Corp. Ignition system. 3,125,704, 3-17-64, Cl. 315-209.
- Blackman, Arthur W., and J. R. Keilbach, to United Aircraft Corp. Tribid rocket combustion chamber. 3,158,997, 12-1-64, Cl. 60-35.6.
- Blackman, Arthur W., Jr., and C. R. Miller, to United Aircraft Corp. Hybrid rocket. 3,144,751, 8-18-64, Cl. 60-35.6.
- Blackman, Peter, J. P. Conbere, and E. M. Perry, to I.C.I./Organica/Inc. Plasticized urea-formaldehyde resins. 3,142,633, 7-28-64, Cl. 260-31.8.
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- Blackmon, Charles M. Apparatus for perforating acoustical plaster ceilings. 3,163,064, 12-29-64, Cl. 83-1.
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- Blackwell, Dana J., to Lewis Engineering Co. Illuminated instrument. 3,143,098, 8-4-64, Cl. 116-129.
- Blackwell, George T., Jr. Digging cribbing head device. 3,126,656, 3-31-64, Cl. 37-189.
- Blackwell, Jennings P., and R. C. Doss, to Phillips Petroleum Co. Monopropellants. 3,125,852, 3-24-64, Cl. 60-35.4.
- Blackwood, Albert J., to Esso Research and Engineering Co. Method and apparatus for retarding spark. 3,156,228, 11-10-64, Cl. 123-146.5.
- Blades, Horace T. Garbage can holder. 3,160,380, 12-8-64, Cl. 248-154.
- Blades, John D., to Burroughs Corp. Helical wrap memory. 3,154,769, 10-27-64, Cl. 340-174.
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- Blair, John W., to The Bendix Corp. Pneumatic tractor trailer braking system. 3,117,822, 1-14-64, Cl. 303-7.
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- Blair, Lloyd S., to General Electric Co. Wire rolling system and method. 3,153,954, 10-27-64, Cl. 80-35.
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- Blair, Noel D., and C. T. Bean, Jr., to Hooker Chemical Corp. Fire retardant bituminous compositions. 3,151,992, 10-6-64, Cl. 106-15.
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- Blair, Robert C., to Western Gypsum Products Ltd. Plaster mixing device. 3,123,341, 3-3-64, Cl. 259-8.
- Blair, Robert C., to Western Gypsum Products Ltd. Fluid operated kettle discharge valve assembly. 3,126,027, 3-24-64, Cl. 137-243.6.
- Blair, Robert C., to Western Gypsum Products Ltd. Agitator for plaster making kettles and the like. 3,128,083, 4-7-64, Cl. 259-107.
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- Blaisdel, Donald S., and R. E. B. Klaas. Process for separating solids from sewage. 3,142,638, 7-28-64, Cl. 210-52.
- Blaisdell, Leroy A., to American Can Co. Dyestuffs and alkali metal salts of wood sugar acids and lignin sulfonates. 3,156,520, 11-10-64, Cl. 8-91.
- Blaisdell, Raymond C., to Great Northern Paper Co. Roll lift device. 3,134,620, 5-26-64, Cl. 284-88.
- Blaisdell, Sidney B., to The Edmonds Co. Wire closing machine. 3,138,914, 6-30-64, Cl. 57-58.7.
- Blaisdell, Sidney B., and A. J. Ensor, said Blaisdell assor., to The Edmonds Co. Controlling means for a double twist wire machine. 3,147,580, 9-8-64, Cl. 57-58.7.
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- Blake, Edwin A., and J. J. Dahl, to The Dow Chemical Co. Stabilized chloroethylene polymer latexes. 3,125,543, 3-17-64, Cl. 260-23.
- Blake, Frederick H. Stick loom shedding means. 3,150,692, 9-29-64, Cl. 139-28.
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- Blake, James A., to Hood, Gust & Irish. Super-regenerative radio receiver. 3,119,065, 1-21-64, Cl. 325-428.

- Blakely, James R. Fishing signal device. 3,134,187, 5-26-64, Cl. 43-17.
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- Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic processes. 3,155,506, 11-3-64, Cl. 96-50.
- Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic processes. 3,155,507, 11-3-64, Cl. 96-64.
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- Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic products. 3,155,516, 11-3-64, Cl. 96-107.
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- Blake, Ralph K., to E. I. du Pont de Nemours and Co. Silver halide compositions, layers and elements. 3,155,518, 11-3-64, Cl. 96-107.
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- Blake, Richard F., W. J. Spaven, and C. C. Ware, to Specialties Development Corp. Controlled frequency power supply system. 3,148,323, 9-8-64, Cl. 321-61.
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- Blanchard, Andre, to Schlumberger Well Surveying Corp. Methods for processing cables. 3,153,696, 10-20-64, Cl. 174-108.
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- Blanchard, Jean M., to Sirius, Luxembourg Grand-Duché de Luxembourg. Vibration generating unit and vibration treating system. 3,137,882, 6-23-64, Cl. 15-308.
- Blanchard, Irene S., and J. A. Bozio. Hair protecting device for use with bathing caps. 3,131,400, 5-5-64, Cl. 2-68.
- Blanchard, Thomas R., to American Cyanamid Co. Sampler for reaction kettles and other vessels under pressure or vacuum. 3,162,049, 12-22-64, Cl. 73-421.
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- Blanco, Elias, to Daystrom, Inc. Potentiometer. 3,120,650, 2-4-64, Cl. 338-202.
- Blanco, Elias, to Weston Instruments, Inc. Adjustable potentiometer. 3,156,888, 11-10-64, Cl. 338-149.
- Bland, Charles C., to Flex-O-Lite Mfg. Corp. Method for production of glass beads by dispersion of molten glass. 3,150,947, 9-29-64, Cl. 65-21.
- Bland, Charles W. Hydraulic spring tooth hitch. 3,137,351, 6-16-64, Cl. 172-624.
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- Blanshine, Allison W., to Sperry Rand Corp. Stock feeder. 3,163,334, 12-29-64, Cl. 222-412.
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- Blase, William W., and J. H. Kogen, to Link Division, General Precision, Inc. Frictionless zero spring rate seal. 3,137,309, 6-16-64, Cl. 137-83.
- Blaser, Bruno, K. H. Worms, and J. Schiefer, to Henkel & Cie, G.m.b.H. Stabilizing agent for peroxy-compounds and their solutions. 3,122,417, 2-25-64, Cl. 23-207.5.
- Blaser, Bruno, W. Stein, H. Weiss, and O. Koch, to Henkel & Cie, G.m.b.H. α -sulfonation of saturated fatty acids and their derivatives. 3,158,632, 11-24-64, Cl. 260-400.
- Blashfield, William H., to North Electric Co. Tape to ticket arrangement for automatic toll ticketing. 3,119,555, 1-29-64, Cl. 234-30.
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- Blattner, Donald J., to United States of America, Navy. Strip line phase comparator. 3,147,435, 9-1-64, Cl. 324-83.
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- Eckstrom, Albert W., and Moore. 3,130,108.
- Kullgren, Gilbert V., Stephenson, Goodwin, Bailey and Schroyer. 3,129,459.
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- Ornlitz, Martin N., and Betzig. 3,124,339.
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- Blay, Justin S., to Selsa Corp. of America. Galvanizing one side of a strip of metal. 3,121,019, 2-11-64, Cl. 117-5.5.
- Blaze, Casey J., and C. G. Richter, to United States of America, National Aeronautics and Space Administration. Formed metal ribbon wrap. 3,162,012, 12-22-64, Cl. 60-39.66.
- Blazensky, Nicholas J., Jr., and R. L. Buckingham, to International Business Machines Corp. Liquid applicator. 3,158,080, 11-24-64, Cl. 95-89.
- Blazo, Walter. Transmission. 3,159,056, 12-1-64, Cl. 74-751.
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- Grudowski, Daniel P.: 3,125,677.
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- Blackley, William J., to National Research Council. Variable delay using dielectric screw rotatable inside surrounding helical transmission line. 3,145,353, 8-18-64, Cl. 333-24.2.
- Bleam, Edgar W., Jr.: See—
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- Blechner, Heinrich. Heat-treatment of metals. 3,117,042, 1-7-64, Cl. 148-152.
- Bleischmidt, Otto. Apparatus for supporting sausage casings. 3,122,779, 3-3-64, Cl. 17-41.
- Blecker, Raymond H., to Simmons Co. Mattress construction. 3,138,807, 6-30-64, Cl. 5-351.
- Blecker, Raymond H., to Simmons Co. Bed construction. 3,142,848, 8-4-64, Cl. 5-174.
- Bleckmann, Richard. Fixation of tubular electric heaters. 3,118,124, 1-14-64, Cl. 338-317.
- Bledsoe, Martin L. Plow mounting connection. 3,120,873, 2-11-64, Cl. 172-751.
- Bledsoe, Martin L. Quick disconnect sweep. 3,156,307, 11-10-64, Cl. 172-744.
- Bledsoe, Woodrow W., to The Murray Co. of Texas, Inc. Roller gin and method of ginning cotton. 3,145,424, 8-25-64, Cl. 19-1052.
- Bledstein, Louis: See—
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- Blee, Robert W., to General Electric Co. Installation means for built-in range. 3,142,295, 7-28-64, Cl. 126-37.
- Bleeker, Maitland B. Launching device for boat trailers. 3,149,735, 9-22-64, Cl. 214-85.5.
- Bleicher, Robert L., to Dayton Perforators, Inc. Work holder. 3,118,260, 1-21-64, Cl. 51-236.
- Bleicher, Robert L., to Dayton Perforators, Inc. Split bushing. 3,155,440, 11-3-64, Cl. 308-237.
- Bleick, Charles F., to Canvas Specialty Mfg. Co. Tent assembly. 3,119,402, 1-28-64, Cl. 135-1.
- Bleiler, Ray C.: See—
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- Bleiman, Howard W. Coin operated vending machine. 3,128,011, 4-7-64, Cl. 221-68.
- Bleiwels, Arthur F., G. W. Colombo, J. B. Dickson, and B. Orlov, to Signal-Stat Corp. Voltage and temperature compensated vane flasher. 3,122,620, 2-25-64, Cl. 200-122.
- Blemly, Marvin S., and L. Mayer, to Jervis B. Webb Co. Electrified rail construction for cranes, monorails, and the like. 3,155,207, 11-3-64, Cl. 191-23.
- Blenner, Aaron, and R. Callahan. Double sheet detector for printing presses. 3,158,369, 11-24-64, Cl. 271-57.
- Blesch, Charles A., and C. K. Benson, to No Flame Process, Inc. Calcination retort. 3,136,273, 6-9-64, Cl. 110-3.
- Bleser, Heribert, to Huttenwerk Oberhausen. Collapsible core for forming hot top in ingot molds. 3,117,354, 1-14-64, Cl. 22-9.
- Blessing, Heinz W.: See—
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- Blew, Robert D.: See—
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- Blewett, James R.: See—
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- Blezard, Leonard, to Hawker Siddeley Aviation Ltd. Cooling by heat exchange with liquid fuel in aircraft. 3,158,197, 11-24-64, Cl. 165-40.
- Blicke, Frederick F., to The Regents of the University of Michigan. 1-(α -phenylbenzyl)-octahydro-1,5-diazocine compound. 3,117,963, 1-14-64, Cl. 260-239.
- Blickensderfer, Robert, to Armco Steel Corp. Metallic structural element. 3,122,224, 2-25-64, Cl. 189-37.
- Blickman, S.: See—
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- Blieske, Herbert, to Alfred Gauthier, G.m.b.H. Photographic camera with automatic exposure setting mechanism. 3,122,978, 3-3-64, Cl. 95-10.
- Blight, Frank C., to The Permutit Co. Ltd. Demineralisation of water. 3,147,215, 9-1-64, Cl. 210-24.
- Blin, Jean, and A. Valentin, to Commissariat a l'Energie Atomique. Fluid-tight intercommunication and disconnecting device for two superposed chambers. 3,116,767, 1-7-64, Cl. 141-348.
- Blink, Peter and R. O., to Mitchell Mfg. Co. Torsion bar leg structures for folding table. 3,143,982, 8-11-64, Cl. 108-113.
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- Blisch, Matthew B. Self-aligning neck card label. 3,149,431, 9-22-64, Cl. 40-311.
- Bliss, Douglas E. Detachable windshield protector. 3,140,115, 7-7-64, Cl. 296-95.
- Bliss, E. W., Co.: See—
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- Diendricks, George D., Bartlett, and Fieser. 3,159,817.
- Meyer, David.: 3,132,683.
- Petrella, Joseph L., and Strance. 3,132,710.
- Weld, Foster E.: 3,162,850.
- Bliss, George N., to Page-Detroit, Inc. Article reservoir and transfer system and device. 3,139,176, 6-30-64, Cl. 198-195.
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- Bliss, Gerald W. H.: See—
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- Bliss, Max D., Jr. Sulky. 3,163,438, 12-29-64, Cl. 280-43.
- Bliss, Robert H. Lawn table. 3,134,625, 5-26-64, Cl. 297-157.
- Bliss, Robert W., to United States of America, Army. Combination graze and impact switch. 3,158,705, 11-24-64, Cl. 200-61.08.
- Blitstein, Naum I.: See—
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- Blitz, Daniel: See—
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- Blitz, Daniel, to Sanders Associates, Inc. Governor for one shot gyro. 3,162,053, 12-22-64, Cl. 74-5.7.
- Blitzer, Sidney M., M. W. Farrar, T. H. Pearson, and J. R. Zietz, Jr., to Ethyl Corp. Manufacture of organolead compounds. 3,136,795, 6-9-64, Cl. 260-437.
- Blitzer, Stanford D.: See—
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- Blitzer, Stanford D., to General Precision Inc. Combination pick-off and self-check mechanism for transducers. 3,159,037, 12-1-64, Cl. 73-517.

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- Bliven, Charles V., and C. S. Cheng, to Ford Motor Co. Hydraulic shock absorber having hydraulic stop means. 3,150,747, 9-29-64, Cl. 188-88.
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- Blizard, Robert B., to Schlumberger Well Surveying Corp. Electroacoustic transducer apparatus. 3,138,219, 6-23-64, Cl. 181-5.
- Bloch, Herman S.: See—
Meisinger, Erwin E., and Bloch. 3,128,318.
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- Bloch, Herman S., and W. K. T. Gleim, to Universal Oil Products Co. Preparation of jet fuels. 3,126,420, 3-24-64, Cl. 260-666.
- Bloch, Hubert, to Ciba Corp. Immunizing composition containing mesoinosito-tri-alpha-D-mannoside. 3,142,620, 7-28-64, Cl. 167-79.
- Bloch, Jack, to Loma Industries. Utensil tray with knife sharpening means. 3,135,383, 6-2-64, Cl. 206-75.
- Bloch, Jack, and H. L. Loew, Device for removing and inserting fluorescent lamps. 3,143,371, 8-4-64, Cl. 294-20.
- Bloch, Lillian P., to Campbell Pharmaceuticals, Inc. Method for producing 2-pyridinealdoxime methochloride. 3,123,613, 3-3-64, Cl. 260-296.
- Blocher, John M., Jr.: See—
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- Blocher, John M., Jr., to United States of America, Navy. Flow seal systems. 3,118,737, 1-21-64, Cl. 23-252.
- Blocher, Thomas J., Jr., to Westinghouse Air Brake Co. Data storage system. 3,126,524, 3-24-64, Cl. 340-173.
- Blocher, Thomas J., Jr., to Westinghouse Air Brake Co. Transistor amplifier-switching circuit with Zener diode limiting for elimination of unattenuated signals. 3,131,309, 4-28-64, Cl. 307-88.5.
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- Block, Aleck, to Merit Products, Inc. Abrasive polisher. 3,116,576, 1-7-64, Cl. 51-193.5.
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- Block, Aleck, to Merit Products, Inc. Abrading apparatus. 3,144,738, 8-18-64, Cl. 51-193.5.
- Block, Aleck, to Merit Products, Inc. Abrading article. 3,157,010, 11-17-64, Cl. 51-377.
- Block, Alfred E.: See—
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- Block, Alfred E., to Block & Anderson Ltd. Selective printing arrangements for rotary printing or duplicating machines. 3,138,092, 6-23-64, Cl. 101-91.
- Block & Anderson Ltd.: See—
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- Block, Alfred E. 3,138,092.
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- Brown, Roland. 3,150,587.
- Matthews, Stephen, and Brown. 3,158,091.
- Block, Charles, and J. R. Gardner, to Minnesota Mining & Mfg. Co. Photointer timing apparatus. 3,140,645, 7-14-64, Cl. 95-73.
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- Block, M. Sabel, J. J. Lubus, M. D. Sidbury, and C. O. Jensen, to P. Lorillard Co. Processing tobacco. 3,141,462, 7-21-64, Cl. 131-140.
- Block, Peter, to Derse Products, Inc. Container for dispensing purposes. 3,130,875, 4-28-64, Cl. 222-143.
- Blockson, Ellis A. Electroluminescent sign and method of making the same. 3,161,974, 12-22-64, Cl. 40-130.
- Blotube Controls Ltd.: See—
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- Blodee, Lelf. Dispenser for tape. 3,138,310, 6-23-64, Cl. 225-65.
- Blodee, Lelf, to Herman Miller, Inc. Stacking chairs. 3,156,498, 11-10-64, Cl. 297-162.
- Blodgett, Leo S.: See—
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- Blodgett Mfg. Co.: See—
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- Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,146,760, 9-1-64, Cl. 122-478.
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- Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,146,762, 9-1-64, Cl. 122-479.
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- Blodgett, Richard E. Reusable mercury circuit breaker device. 3,131,273, 4-28-64, Cl. 200-113.
- Blodgett, Richard E., and L. S. Layout board for use in the graphic arts. 3,122,835, 3-3-64, Cl. 83-80.
- Blodgett, Stewart B., to Blodgett Mfg. Co. Dynamically compensated weighing scales. 3,142,349, 7-28-64, Cl. 177-164.
- Bloemendaal, Stanley D.: See—
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- Blohm, Edward G., E. F. McHale, and W. L. Unright, to General Electric Co. Harness connection for dynamoelectric machines. 3,145,317, 8-18-64, Cl. 310-260.
- Blohm, Richard, to Kötler & Co. Chord forming device for string instruments. 3,154,994, 11-3-64, Cl. 84-317.
- Blohm, Thomas R.: See—
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- Blokker, Johan F., to Hewlett-Packard Co. Circuit producing positive or negative pulses with respect to common reference, employing magnetically-coupled flux-opposing elements. 3,153,199, 10-13-64, Cl. 328-34.
- Blom, Conrad C., to Bommer Spring Hinge Co., Inc. Concealed overhead door closer. 3,137,888, 6-23-64, Cl. 16-51.
- Blom, Otto F. Multi-purpose garden implement. 3,138,211, 6-23-64, Cl. 172-371.
- Blom, Roy A., to Potter Instrument Co., Inc. Expandable key. 3,145,036, 8-18-64, Cl. 287-52.05.
- Blomberg, Göte E. Fastening arrangement for tarpaulins. 3,121,271, 2-18-63, Cl. 24-141.
- Blomberg, Richard N., to E. I. du Pont de Nemours and Co. Textile filament anti-static graft copolymers of acrylonitrile polymers and specific vinyl sulfonic acids or water-soluble salts thereof. 3,123,434, 3-3-64, Cl. 8-115.5.
- Blomgren, Oscar C., and O. C. Blomgren, Jr. Gear pump. 3,128,710, 4-14-64, Cl. 103-42.
- Blomgren, Oscar C., and O. C., Jr., to Coy Mfg. Co. Gear pump assembly. 3,139,834, 7-7-64, Cl. 103-126.
- Blomgren, Oscar C., Jr.: See—
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- Blommel, William. Heel jacks. 3,140,547, 7-14-64, Cl. 33-164.
- Blommers, Elizabeth A.: See—
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- Tsou, Kwan C., and Blommers. 3,159,612.
- Blomquist, Arthur G.: See—
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- Magers, William M., Wermager, and Blomquist. 3,133,776.
- Blomquist, George I., and J. A. Johnson, to American Hospital Supply Corp. Serving tray. 3,148,636, 9-15-64, Cl. 108-26.
- Blomquist, Orlo J. Wedge type open combustion chamber for improved combustion in diesel engines. 3,156,223, 11-10-64, Cl. 102-32.5.
- Blomquist, Robert E.: See—
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- Blomstrom, Dale C.: See—
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- Blonde, Guy, to Outinord, Societe Anonyme. Molds. 3,124,858, 3-17-64, Cl. 25-131.
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- Blondeau, Roland G. A. Missile for sporting guns. 3,157,126, 11-17-64, Cl. 102-92.5.
- Blonder, Isaac S., to Blonder-Tongue Electronics. Electrical connector locking system. 3,129,992, 4-21-64, Cl. 339-37.
- Blonder, Isaac S., to Blonder-Tongue Electronics. Electrical outlet attachment. 3,131,985, 5-5-64, Cl. 339-37.
- Blonder, Isaac S., to Blonder-Tongue Electronics. Attenuator system having end-terminated dissipative long line with input and output taps movable symmetrically to mid point. 3,144,625, 8-11-64, Cl. 333-81.
- Blonder, Isaac S., and W. E. Sampson, to Blonder Tongue Electronics. Transmission-line connector. 3,154,362, 10-27-64, Cl. 339-97.
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- Blood Plasma Corp. of Japan, The: See—
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- Blood, Robert H., to Jersey Production Research Co. Oil recovery method. 3,126,962, 3-31-64, Cl. 166-42.
- Bloodworth, Loy H., and K. E. Wood, to United States of America, Navy. Power saving switch driver system. 3,143,668, 8-4-64, Cl. 307-88.5.
- Bloom, Aaron, to Sierra Engineering Co. Mouth to mouth resuscitator. 3,158,152, 11-24-64, Cl. 128-29.
- Bloom, Aaron, and W. D. Morton, Jr., to Sierra Engineering Co. Deicer boot for breathing mask. Re. 25,688, 11-17-64, Cl. 128-146.

- Bloom, Aaron, and O. W. Wilcox, to Sierra Engineering Co. Passenger mask assembly. 3,158,153, 11-24-64, Cl. 128-142.
- Bloom, Arnold L.: See—
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- Bloom, Frederick S. Furnace burner system. 3,139,138, 6-30-64, Cl. 158-11.
- Bloom, Frederick S. Variable flame type gas burner. 3,154,134, 10-27-64, Cl. 158-109.
- Bloom, John E. Bottle pouring attachment with swivel spout. 3,139,224, 6-30-64, Cl. 222-479.
- Bloom, Leslie C., to Lubrillite Corp. Illuminating grease gun. 3,128,952, 4-14-64, Cl. 240-6.46.
- Bloom, Martin S., and J. J. Hirzel, to Imperial Chemical Industries Ltd. Omegaatron electrode assembly. 3,152,280, 10-6-64, Cl. 313-243.
- Bloom, Otto N. Method of making small to sub-miniature sizes of electrical coils. 3,159,907, 12-8-64, Cl. 29-155.5.
- Bloom, Richard A., to Lippe-Rollway Corp. Self-energizing friction clutch. 3,158,241, 11-24-64, Cl. 192-82.
- Bloomer, Robert P. Cylinder liner splitting tool. 3,153,281, 10-20-64, Cl. 30-91.
- Bloomfield, Allan A., J. A. Carter, G. H. Jones, J. Saunders, and J. G. Searle, to British Nylon Spinners Ltd. Spinners for producing heterofilaments. 3,161,914, 12-22-64, Cl. 18-8.
- Bloomfield, Peter R., to Artrite Resins Ltd. Production of polymers containing s-triazine nuclei linked together by a nitrogen atom comprising reacting s-triazines with nitrogen compounds. 3,155,628, 11-3-64, Cl. 260-2.
- Bloomfield, Peter R., and K. Parvin, to Artrite Resins Ltd. Method for the preparation of polyaromatic resins. 3,159,589, 12-1-64, Cl. 260-2.
- Bloomfield, Roger E., to General Motors Corp. Plug together relay and printed circuit board. 3,142,784, 7-28-64, Cl. 317-113.
- Bloomfield, Paul F., to The Coleman Co., Inc. Blower assembly. 3,117,715, 1-14-64, Cl. 230-117.
- Bloomquist, Arthur G., R. E. Eggers, and P. J. Gobel, to Northern Ordnance, Inc. Cable retainer for electrical connectors. 3,116,945, 1-7-64, Cl. 287-119.
- Bloomquist, George W., to FMC Corp. Hydraulic valve. 3,144,039, 8-11-64, Cl. 137-222.
- Bloomsburgh, Ralph A., W. P. Boothroyd, and R. C. Moore, to Philco Corp. Deflection yoke with separable portions for CRT with constricted neck. 3,163,794, 12-29-64, Cl. 313-76.
- Bloss, Ronald E., and R. E. Kohls, to The Upjohn Co. Treating coccidiosis with lincomycin. 3,150,042, 9-22-64, Cl. 167-53.1.
- Blossom, Kent M.: See—
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- Blotsky, Jacob, Jr. Barbecue grill. 3,126,881, 3-31-64, Cl. 126-25.
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- Blount, Floyd E., to Socony Mobil Oil Co., Inc. Flanging tool. 3,142,868, 8-4-64, Cl. 18-19.
- Blount, Floyd E., and C. J. Fritts, to Socony Mobil Oil Co., Inc. Method and structure for repairing pipelines. 3,123,101, 3-3-64, Cl. 138-97.
- Blount, Frank E., and M. E. Krom, to Bell Telephone Laboratories, Inc. Telephone line concentrator. 3,133,156, 5-12-64, Cl. 179-18.
- Blount, Luther H. Safety release for trawl wires. 3,119,601, 1-28-64, Cl. 254-137.
- Blount, Luther H. Controllable pitch propeller. 3,135,336, 6-2-64, Cl. 170-160.43.
- Blout, Elkan R., S. Kasman, and M. S. Simon, to Polaroid Corp. Novel photographic products, processes and compositions employing anthrapyridone developers. 3,126,280, 3-24-64, Cl. 96-29.
- Blout, Elkan R., and M. S. Simon, to Polaroid Corp. Nitro and amino ketones. 3,131,219, 4-28-64, Cl. 260-375.
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- Blout, Elkan R., M. Green, H. G. Rogers, and M. S. Simon, R. B. Woodward, to Polaroid Corp. Novel photographic products and processes employing anthraquinone dye. 3,135,606, 6-2-64, Cl. 96-29.
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- Blubaugh, Milton I.: See—
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- Bollin, Robert S., to Toledo-Beaver Tools, Inc. Apparatus for preparing tubing for a sweated joint. 3,146,528, 9-1-64, Cl. 29-564.
- Bolling, Robert S., and G. D. Plant, to Kaiser Steel Corp. Latch mechanism for container bottom discharge door. 3,152,824, 10-13-64, Cl. 292-216.
- Bollinger, Daniel H., Jr. Safety seat belt device. 3,126,227, 3-24-64, Cl. 287-385.
- Bollinger, Frederick W., D. F. Reinhold, and M. Slettinger, to Merck & Co., Inc. Preparation of O.O-dialkanoyl derivatives of D,L- α -alkyl- β -3,4-dihydroxyphenyl alanine by preferential acylation. 3,132,176, 5-5-64, Cl. 260-478.
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- Bollman, Emil W., to The Cincinnati Milling Machine Co. Automatically indexed tool turret. 3,158,920, 12-1-64, Cl. 29-355.
- Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Container. 3,134,577, 5-26-64, Cl. 259-71.
- Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Method of making a cable connection. 3,150,221, 9-22-64, Cl. 264-273.
- Bollum, Carl W., Sr., to Carwil Enterprises, Inc. Ground effect vehicle with steering and propelling means. 3,153,461, 10-20-64, Cl. 180-7.
- Bollyky, Laszlo, S. M. Davis, and J. P. Dundon, to American Cyanamid Co. Sulfone inhibitors in aromatic sulfonates. 3,133,117, 5-12-64, Cl. 260-505.
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- Bolomey, René A., H. A. Miller, and L. M. Greenstein, to Francis Earle Laboratories, Inc. Method for preparing nacreous pigments. 3,123,489, 3-3-64, Cl. 106-291.
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- Bolstad, Archibald, N., to Minnesota Mining and Mfg. Co. Polymerization process for unsaturated fluorocolefins. 3,163,628, 12-29-64, Cl. 260-87.5.
- Bolster, Ronald H., to Clark Equipment Co. Transmission. 3,126,752, 3-31-64, Cl. 74-359.
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- Bolt, Robert O., and W. W. Hanneman, to United States of America, Atomic Energy Commission. Irradiation method including the production of polyaromatic ethers. 3,123,534, 3-3-64, Cl. 178-39.
- Bolt, William N., to Pallet loading mechanisms. 3,142,389, 7-28-64, Cl. 214-6.
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- Bolton, Benjamin A., and K. E. Kolb, to Standard Oil Co. Grease. 3,117,086, 1-7-64, Cl. 252-33.6.
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- Bolton, Marquis W., to United States of America, Air Force. Safe method for testing the electrically conductive firing element of an explosive device by rotating and counterrotating a portable galvanometer. 3,153,757, 10-20-64, Cl. 324-51.
- Bolton, Norman A., to General Signal Corp. Bi-directional multiple lane vehicle registering system. 3,141,612, 7-21-64, Cl. 235-99.
- Bolton, Ora, Jr., and C. Wade. Locking cleat. 3,145,684, 8-25-64, Cl. 114-218.
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- Bolz, Bernhart A., and H. A. Morrill, to B. H. Bunn Co. Support means for tying machine. 3,149,558, 9-22-64, Cl. 100-8.
- Boman, Karl G., and K. B. V. Annerbed, to Sandvikens Jernverks Aktiebolag. Safety landing for passenger conveyors and moving sidewalks. 3,132,733, 5-12-64, Cl. 198-16.
- Bombardier, Germain. Trailer for endless track vehicle. 3,149,738, 9-22-64, Cl. 214-506.
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- Bonamy, Robert P. Tide operated water lifting device. 3,122,889, 3-3-64, Cl. 61-20.
- Bonanno, Anthony S. Venetian blind retainers. 3,130,777, 4-28-64, Cl. 160-178.
- Bonanno, Ernest J., to Automatic Electric Laboratories, Inc. Automatic number identification. 3,124,656, 3-10-64, Cl. 179-18.
- Bonanno, Ernest J., to Automatic Electric Laboratories, Inc. Special service toll telephone system. 3,133,153, 5-12-64, Cl. 179-7.1.
- Bonanno, Joseph L., to Walter E. Heller & Co. (Inc.). Anemometer. 3,119,261, 1-28-64, Cl. 73-189.
- Bonanno, Joseph L., to W. E. Heller & Co., Inc. Toy rail-road track switches. 3,126,179, 3-24-64, Cl. 246-231.
- Bonanno, Joseph L., and D. L. Crossman, to W. E. Heller & Co., Inc. Toy railway dump car and actuator. 3,126,668, 3-31-64, Cl. 46-40.
- Bonarrigo, Paul. See—
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- Bonavera, Victor. Rotor type power generating or work performing means. 3,117,561, 1-14-64, Cl. 123-8.
- Bonazza, Saverio J. Toy gun with slidable chamber. 3,151,411, 10-6-64, Cl. 42-55.
- Bond, Beverly, to Ronson Corp. Electric head construction with movable slide cover. 3,143,796, 8-11-64, Cl. 30-34.
- Bond, Frank D., Jr., J. M. Canty, and J. A. Palvanas, to Union Carbide Corp. Vacuum-insulated valved coupling. 3,152,452, 10-13-64, Cl. 82-45.
- Bond, George R., Jr., to Air Products and Chemicals, Inc. Kaolin cracking catalysts having improved oxidizing characteristics. 3,153,635, 10-20-64, Cl. 252-432.
- Bond, Gordon V., to Microcell Ltd. Rotary stepping mechanisms. 3,143,674, 8-4-64, Cl. 310-37.
- Bond, Harry L. F. See—
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- Bond, Herbert M. See—
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- Bond, Herbert M., and W. P. Smith, to Minnesota Mining and Mfg. Co. Pressure-sensitive adhesive tape with plasticized polyvinyl chloride backing. 3,129,816, 4-21-64, Cl. 208-39.
- Bond, Jack B., R. J. Gasparac, and H. Balmer, to Nordberg Mfg. Co. Locking mechanism for cone crushers and the like. 3,133,708, 5-19-64, Cl. 241-290.
- Bond, Jack B., and O. C. Gruender, to Nordberg Mfg. Co. Replaceable wearing parts for crushers with tilting bowls. 3,151,817, 10-6-64, Cl. 241-290.
- Bond, Joseph M., to Polarpac Corp. Combined blind and window unit. 3,153,819, 10-27-64, Cl. 20-56.5.
- Bond, Milton, E. Stotter, and J. Weitz, to Scott & Williams, Inc. Circular knitting machine for knitting pile fabrics. 3,124,944, 3-17-64, Cl. 66-9.
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- Bondi, Enrico. See—
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- Bondkirch, Joseph A., to Lee S. Heydenreich. Level control device with electrical switch means. 3,129,299, 4-14-64, Cl. 200-61.2.
- Bondley, Ralph J., to General Electric Co. Composite bodies and method of making. 3,138,228, 6-23-64, Cl. 189-36.5.
- Bondley, Ralph J., to General Electric Co. Vacuum tight electromagnetic radiation permeable window seal. 3,150,881, 11-10-64, Cl. 333-98.
- Bondley, Ralph J., to General Electric Co. Vacuum tight electromagnetic radiation permeable window seal. 3,156,882, 11-10-64, Cl. 333-98.
- Bondon, Lewis A. Coaxial transmission line utilizing reactance compensated, paired pin-type insulator spacing assembly. 3,151,925, 10-6-64, Cl. 333-96.
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- Boner, Johann, to Anstalt Decotex. Multiple turret lathe. 3,116,537, 1-7-64, Cl. 29-44.
- Bonfield, John H., to Allied Chemical Corp. Purification of nitrocyclohexane. 3,126,418, 3-24-64, Cl. 260-644.

- Bonfield, John H., to Allied Chemical Corp. Vapor phase nitration of cyclohexane. 3,133,123, 5-12-64, Cl. 260-644.
- Bonfield, John H., to Allied Chemical Corp. Multi-stage nitration of cyclohexane. 3,133,124, 5-12-64, Cl. 260-644.
- Bongiglio, Anthony. Shorting means for ignition systems. 3,156,795, 11-10-64, Cl. 200-61.52.
- Bongiglioni, Gianpaolo. See—
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- Bongard, Mathieu, to Stamcarbon N.V. Urea preparation. 3,120,563, 2-4-64, Cl. 260-555.
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- Bongiovanni, John C. Production of strip or sheet stock from molten metals. 3,146,525, 9-1-64, Cl. 29-528.
- Bongiovanni, John C., H. O. Hill, C. T. Whitacre, and C. H. Anderson, Jr., to Hyde Park Foundry and Machine Co. Expandable tension reel. 3,128,958, 4-14-64, Cl. 242-72.1.
- Bongiovanni, John P. Masonry guides. 3,130,500, 4-28-64, Cl. 33-83.
- Bonham, Don L. Electrical vibrato and tremolo devices. 3,146,292, 8-25-64, Cl. 84-1.25.
- Bonham, Don L. Electrical music system. 3,160,695, 12-8-64, Cl. 84-1.25.
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- Bonhomme, François R., to Curtiss-Wright Corp. Electric couplings. 3,214,723, 7-21-64, Cl. 339-252.
- Boni, Frank, Jr., P. S. Otten, and D. L. Hummel, to Baldwin-Lima-Hamilton Corp. Heat exchanger construction. 3,126,949, 3-31-64, Cl. 165-158.
- Boniface, George B. See—
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- Bonin, George E., to Corning Glass Works. Method and apparatus for machining lip edge portions of a vessel. 3,160,994, 12-15-64, Cl. 51-161.
- Bonin, Lawrence G., and G. F. Bowden, to Symons Mfg. Co. Concrete wall form panel with oversized panel facing. 3,137,099, 6-23-64, Cl. 25-131.
- Bonino, Cesare. See—
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- Bonkowski, Teofil L., and B. V. Curry, Jr., to A. B. Willis. Multiple packaging. 3,134,485, 5-26-64, Cl. 206-65.
- Bonmartini, Giovanni. Pneumatic track device for track laying vehicles. 3,146,035, 8-25-64, Cl. 305-11.
- Bonmartini, Giovanni. Pneumatic tubular track, driving and carrying device. 3,155,436, 11-3-64, Cl. 305-13.
- Bonn, Theodore H., to Sperry Rand Corp. Magnetic amplifier circuit having a plurality of control inputs. 3,153,150, 10-13-64, Cl. 307-88.
- Bonnefols, Jean A. G., to Compagnie Generale d'Electricite. Electric interrupting device notably for polyphase limiting circuit breakers. 3,154,657, 10-27-64, Cl. 200-147.
- Bonnell, Alfred, Jr., and W. F. Rossiter, to Eltra Corp. Adjustable control system. 3,129,605, 4-21-64, Cl. 74-501.
- Bonnell, George N., and R. A. Barr, to Midland-Ross Corp. Apparatus for the continuous feeding of strandular material. 3,128,026, 4-7-64, Cl. 226-11.
- Bonnelly, Rafael D. Combined bumper and bottle opener. 3,125,368, 3-17-64, Cl. 293-69.
- Bonnelly, Rafael D. Twin ball toy with means for adjusting the balls along the length of a cord. 3,157,962, 11-24-64, Cl. 46-52.
- Bonner, Charles W., Jr., and C. T. Houck, to The Cardwell Machine Co. Tobacco threshing machine. 3,126,014, 3-24-64, Cl. 131-145.
- Bonner, Charles W., Jr., and C. T. Houck, to The Cardwell Machine Co. Tobacco shredder. 3,141,485, 7-21-64, Cl. 146-117.
- Bonner, Eugene F., to Union Carbide Corp. Continuous process for polymerizing polyethylene. 3,136,747, 6-9-64, Cl. 260-94.9.
- Bonner, Francis J., and D. A. Reed, to Socony Mobil Oil Co., Inc. Lubricating oil composition of improved low-temperature detergency. 3,123,570, 3-3-64, Cl. 252-32.7.
- Bonner, James W. Well apparatus setting tool. 3,160,209, 12-8-64, Cl. 166-63.
- Bonner, William J., to Crompton & Knowles Corp. Sheet extrusion die. 3,118,179, 1-21-64, Cl. 18-12.
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- Bonnet, Georges, J. L. Laffon, and P. Servoz-Gavin, to Commissariat a l'Energie Atomique. Enhanced polarization nuclear free precession magnetometer. 3,133,243, 5-12-64, Cl. 324-5.
- Bonnet, Georges, and A. Salvi, to Commissariat a l'Energie Atomique. Apparatus for measuring magnetic fields. 3,145,336, 8-18-64, Cl. 324-5.
- Bonnet, Robert E., to Engelhard Industries, Inc. Pressure seal. 3,133,738, 5-19-64, Cl. 277-112.
- Bonnet, Yannik. See—
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- Bono, Luigi, to Necchi Società per Azioni. Zig-zag sewing machines. 3,132,614, 5-12-64, Cl. 112-158.
- Bono, Luigi, to Necchi Società per Azioni. Programmed start and stop for a machine such as a sewing machine. 3,157,261, 11-17-64, Cl. 192-142.
- Bonomo, Melvin E., J. O. Bradford, and W. E. Zimmerman. Tractor-drawn and driven rotary cultivator. 3,136,373, 6-9-64, Cl. 172-60.
- Bonrud, Leon O., to Minnesota Mining and Mfg. Co. Reproduction process. 3,127,332, 3-31-64, Cl. 204-18.
- Bonrud, Leon O., to Minnesota Mining & Mfg. Co. Reproduction system. 3,127,333, 3-31-64, Cl. 204-18.
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- Bonsall, Rodney T., Jr. See—
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- Bonsch, François R., to Block & Anderson Ltd. Cylinder mounting adjusting and interrupting means for offset printing and like machines. 3,150,588, 9-29-64, Cl. 101-216.
- Bonsignore, Charles. See—
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- Bonsignore, Charles, to Emsig Mfg. Co. Distributor for disks. 3,145,827, 8-25-64, Cl. 198-33.
- Bonsor, David V., to Interstate Bag Co., Inc. Carrier bags. 3,126,146, 3-24-64, Cl. 229-54.
- Bontempi, Ignatius, to De Francis Machine Corp. Container positioning apparatus. 3,149,713, 9-22-64, Cl. 198-24.
- Bonura, John. Plastic bag machine. 3,137,455, 6-16-64, Cl. 242-56.
- Bonvicini, Alberto, A. Monaci, and V. Cappuccello, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Polypropylene articles peroxidized and grafted with acidic or basic unsaturated monomers and the production of said articles. 3,131,990, 5-5-64, Cl. 8-115.5.
- Bonzi, Betty B. Detachable garment trim. 3,127,617, 4-7-64, Cl. 2-96.
- Bood, Louis, to Mowid Anstalt. Centrifugal pump. 3,136,258, 6-9-64, Cl. 103-87.
- Bood, Louis, to Mowid Anstalt. Sump pump plant. 3,136,259, 6-9-64, Cl. 103-87.
- Booe, James M., W. D. Loftus, and R. E. Ralston, to P. R. Mallory & Co., Inc. Rechargeable battery with means to prevent overcharging. 3,148,322, 9-8-64, Cl. 320-43.
- Booker, Finis E. Agricultural spray apparatus. 3,143,295, 8-4-64, Cl. 239-142.
- Booker, James W. Crab shell cleaning machine. 3,142,939, 8-4-64, Cl. 61-14.
- Bookhamer, James E. See—
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- Bookhamer, William F. See—
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- Bookman, Abe C. Liquid filled die agitator containing a die having raised indicia on the facets thereof. 3,119,621, 1-28-64, Cl. 273-145.
- Bookmyer, Gerald R. See—
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- Bookout, Floyd V., to L. W. Menzimer. Dispensing device. 3,146,907, 9-1-64, Cl. 221-67.
- Bookout, Floyd V., and R. T. Pfluger, to Automatic Canteen Co. of America. Test means for paper and currency. 3,122,227, 2-25-64, Cl. 194-4.
- Boon, Johannes W. Disc jacket. 3,162,355, 12-22-64, Cl. 229-68.
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- Boone, James E. Lawn mower work bench and test stand. 3,136,156, 6-9-64, Cl. 73-116.
- Boone, James L., R. J. Brotherton, and L. L. Petterson, to United States Borax & Chemical Corp. Boron-carborane bonded compounds. 3,136,812, 6-9-64, Cl. 260-551.
- Boone, James L., and R. J. Brotherton, to United States Borax & Chemical Corp. Boron-carborane bonded compounds. 3,136,813, 6-9-64, Cl. 260-551.
- Boone, Jerry C., to Allis-Chalmers Mfg. Co. Hillside combine with specific axle structure. 3,160,221, 12-8-64, Cl. 180-41.
- Boone, Jerry C., to Allis-Chalmers Mfg. Co. Ladder mounting for hillside combines. 3,160,423, 12-8-64, Cl. 280-165.
- Boone, Joseph, to M. Berghgracht. Box adapted to contain a liquid or flowing material. 3,121,621, 2-18-64, Cl. 229-14.
- Boone, Joseph, to M. Berghgracht. Device for continuously forming a multiply tube. 3,146,685, C. 93-8.
- Boone, Joseph E., and J. S. Hill, II, to Metrotek Electronics, Inc. Frequency selective signalling system. 3,123,675, 3-3-64, Cl. 179-87.
- Boone, Stephen E., to United States of America, Navy. Vibra-pen scriber assembly. 3,125,401, 3-17-64, Cl. 346-140.
- Boone, Wallace D., to Dover Corp. Safety cut-off for automatic dispensing valve. 3,126,925, 3-31-64, Cl. 141-208.
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- Boron, Frank J., to American Brake Shoe Co. Rolling mill drum. 3,122,337, 2-25-64, Cl. 242-78.1.
- Boron, Frank J., to American Brake Shoe Co. Furnace retorts. 3,141,658, 7-21-64, Cl. 263-47.
- Boron, Kurt, W. Janssen, W. Feldkamp, and W. Radeker, to Phoenix-Rheinrohr Aktiengesellschaft Vereinigte Hutten- und Rohrenwerke. Process for the production of clad products. 3,116,549, 1-7-64, Cl. 29-471.5.
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- Bosak, Paul. Birthday cake candle extinguisher. 3,150,831, 9-29-64, Cl. 239-211.
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- Bosch, Lawrence R., 1/4 to M. C. Bosch and 1/4 to J. W. Ralls and A. E. Hendricson. Honeycomb structure and process of manufacture. 3,137,604, 6-16-64, Cl. 156-197.
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- Bosch, Robert, G.m.b.H.: See—
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- Kreissig, Johannes, and Lenz. 3,146,321.
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- Bosco, Charles G., to Northwestern Steel & Wire Co. Coiling device for hot rod. 3,143,314, 8-4-64, Cl. 242-83.
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- Bose, Norman J., and D. A. Break, to General Precision, Inc. Level encoder. 3,157,872, 11-17-64, Cl. 340-347.
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- Bosler, Warren W. Emergency signal device. 3,123,801, 3-3-64, Cl. 340-52.
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- Bosma, Hendrik, to North American Phillips Co., Inc. Directional isolator employing gyromagnetic material biased at an angle to increase damping. 3,135,931, 6-2-64, Cl. 333-24.2.
- Bosmajian, George, to Southern Research Institute. Isomerization process. 3,135,809, 6-2-64, Cl. 260-850.
- Bosomworth, George P., and A. M. Lancaster, to The Firestone & Rubber Co. Tubed innerliner for bagless cured tires. 3,143,449, 8-4-64, Cl. 156-126.
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- Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. 2-hydroxy-2-phenyl-ethyl carbamate for muscle relaxation. 3,144,389, 8-11-64, Cl. 167-65.
- Bost, Howard W., and R. C. Doss, to Phillips Petroleum Co. Nitrofluoro-alkanes as oxidant for liquid rocket propellants. 3,127,736, 4-7-64, Cl. 60-35.4.
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- Bostwick, Michael M. Animal shelter. 3,163,151, 12-29-64, Cl. 119-19.
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- Bottger, Josef, and J. Klos, to Tatra, narodni podnik. Cylinder head for internal combustion engines. 3,117,565, 1-14-64, Cl. 123-41.57.
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- Boudouris, Angelo. Communication system for drive-in restaurants and other applications. 3,156,774, 11-10-64, Cl. 179-16.
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- Boughnou, Thomas R., to Raytheon Co. Sideband cancellation system. 3,132,339, 5-5-64, Cl. 343-8.
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- Bourcier de Carbon, Christian-Marie-Lucien-Louis. Vehicle suspension devices. 3,145,985, 8-25-64, Cl. 267-64.
- Bourdrel, Jacques. Relay operating by electrocapillarity. 3,161,750, 12-15-64, Cl. 200-152.
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 Alsager, Leslie E., and Brand. 3,125,975.
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 Brandon, Clarence W., 12 1/2% to O. B. Brandon, and 50% to N. A. Hardin and H. H. Wright. Method and apparatus for forming and/or augmenting an energy wave. 3,141,099, 7-14-64, Cl. 310-4.
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 Brandon, Orpha: See—
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 Brandon, Clarence W. 3,141,099.
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 Brandon, Theodore A. Lumber sorting and accumulating mechanisms. 3,116,835, 1-7-64, Cl. 209-90.
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- Brannock, Kent C., and R. D. Burpitt, to Eastman Kodak Co. Acetylenic amines. 3,156,726, 11-10-64, Cl. 260-570.8.
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 Brasfield, Buel T., and W. R. Potter. Expandable hoop fixture. 3,149,597, 9-22-64, Cl. 113-102.
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- Brauchle, Edwin J. Cutlery serrating apparatus. 3,143,829, 8-11-64, Cl. 51-98.
- Brauchle, Mildred: See—
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- Brauchle, Milton J., deceased; M. Brauchle, administratrix, to Universal Fertilizer Equipment Mfg. Co., Inc. Fertilizer distributor or planter. 3,122,282, 2-25-64, Cl. 222-368.
- Brauck, Clifford D., to Stewart-Warner Corp. Hydraulic hose and coupling. 3,140,884, 7-14-64, Cl. 285-242.
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- Braucula, Herbert C.: See—
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- Braudorn, Karl H., to Continental Gummi-Werke Aktiengesellschaft. Detachable anti-skid means for rubber tires of vehicles. 3,118,481, 1-21-64, Cl. 152-222.
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- Brauer, Gerhard W., to Resdel Engineering Corp. Cavity amplifier with annular grid cavity. 3,122,712, 2-25-64, Cl. 330-56.
- Braut, Andre R., and A. K. Chitayat, to Optomechanisms, Inc. Remote film viewer. 3,143,589, 8-4-64, Cl. 88-31.
- Braut, Robert G., and G. F. Huff, to Callery Chemical Co. Preparation of high energy boron containing fuels. 3,124,617, 3-10-64, Cl. 260-606.5.
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- Braun, Anton. Free piston machine. 3,134,372, 5-26-64, Cl. 132-46.
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- Braun, C. F., & Co.: See—
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- Braun, David H., to All-Tech Industries Inc. Animated moving target. 3,163,420, 12-29-64, Cl. 473-103.2.
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- Braun, G. A., Inc.: See—
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- Braun, Marinus J., to Air Reduction Co., Inc. Resistor. 3,134,954, 5-26-64, Cl. 338-66.
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- Braun, Ottwin L., to Reliance Steel Products Co. Forced circulation water-cooled furnace door. 3,156,218, 11-10-64, Cl. 122-498.
- Braun, Philip N., and J. A. Filsinger; said Filsinger assor. to said Braun. Machine for affixing identification tags to garments. 3,150,577, 9-29-64, Cl. 93-88.
- Braun, Poul B., and W. Kwestroo, to North American Philips Co., Inc. Ferromagnetic material. 3,117,935, 1-14-64, Cl. 252-62.5.
- Braun, Robert A., to E. I. du Pont de Nemours and Co. Tetraalkenyl-1,4-dioxanes. 3,133,087, 5-12-64, Cl. 260-260-340.6.
- Braun, Robert A., to E. I. du Pont de Nemours and Co. Coating compositions. 3,157,525, 11-17-64, Cl. 106-287.
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- Braun, Roland, to Brown, Boveri & Cie, Aktiengesellschaft. Arrangement with phase-dependent measurement particularly for relays. 3,131,329, 4-28-64, Cl. 317-27.
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- Braun, Willy: See—
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- Braunlich, Frank H., Jr.: See—
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- Rai, Charanjit, and C. Rai, to The Pure Oil Co. Process for refining and deodorizing petroleum fractions. 3,120,486, 2-4-64, Cl. 208-189.
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- Braverman, Robert P., to M. I. Glass. Toy vehicle track. 3,139,237, 6-30-64, Cl. 238-10.
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- Bray, Anthony R., and D. Kahng, to Bell Telephone Laboratories, Inc. Method of making a varactor diode by epitaxial growth and diffusion. 3,149,395, 9-22-64, Cl. 29-25.3.
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- Bray, Donald T., A. M. Larson, Jr., M. J. Kornfeld, and C. F. Leyse, to Internuclear Co. Shielding for nuclear reactors. 3,127,323, 3-31-64, Cl. 176-69.
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- Voorbees, Vanderveer. 3,155,617.
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- Bray, Thomas E., to General Electric Co. Electro-optical shift register. 3,132,325, 5-5-64, Cl. 340-173.
- Bray, Thomas E., and R. D. Stewart, to General Electric Co. Electroluminescent-photoconductor devices having improved input-output isolation. 3,163,763, 12-29-64, Cl. 250-206.
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- Gerard, George, and Brayman. 3,156,475.
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- Brayman, Jacob, and M. A. Gabey, to Barogenics, Inc. Gasket forming technique in pressure-multiplying apparatus. 3,154,619, 10-27-64, Cl. 264-319.
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- Breadner, Robert L., to General Electric Co. Ltd. Manufacture of glass articles. 3,118,752, 1-21-64, Cl. 65-32.
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- Brearely, Donald W., and D. K. Rex, to International Business Machines Corp. Process for making a tungsten carbide die. 3,145,586, 8-25-64, Cl. 76-107.
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- Breault, Homer H., to General Electric Co. Production of high purity nitrogen. 3,145,085, 8-18-64, Cl. 23-220.
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- Brechlin, Gordon L. Joint water stop. 3,145,503, 8-25-64, Cl. 50-346.
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- Brecht, George: See—
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- Breck, John H., Inc.: See—
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- Breckenridge, Davis T., to Catalyst Research Corp. Clip-on heater. 3,158,393, 11-24-64, Cl. 263-4.
- Brede, Albert. Saw with reciprocating arbor assembly. 3,128,807, 4-14-64, Cl. 143-47.
- Brede, Christian, to Tor-Itag Steel Corp., S.A.H. Bending machine for steel bars. 3,151,656, 10-6-64, Cl. 153-20.
- Bredchoff, Victor N., and F. J. Mische, to General Service Co. Motor speed control. 3,123,005, 3-3-64, Cl. 103-35.
- Bredon, Alan D.: See—
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- Bredow, Walter. Punch press with a rotatable tool head. 3,139,779, 7-7-64, Cl. 83-146.
- Bredow, Walter. Multiple die punches with stripper means. 3,160,046, 12-8-64, Cl. 83-130.
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- Englert, Joseph A., Magos, and Bredtschneider. 3,149,847.
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- Breitmeier, Max. Photoelectric weft detecting means. 3,139,911, 7-7-64, Cl. 139-370.
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- Brekke, John E., to United States of America, Agriculture. Sampling device. 3,143,884, 8-11-64, Cl. 73-425.2.
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- Bremsher, Fritz: See—
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- Brendemuhl, Roger C., L. H. Gerhardt, and J. B. Kripke, to General Motor Corp. Electric lock. 3,160,792, 12-08-64, Cl. 317-134.
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- Britton, Peter S., to North American Phillips Co., Inc. High-frequency oven. 3,151,230, 9-29-64, Cl. 219-10.55.
- Britton, Philip S., and H. P. Fochler, to Carlon Products Corp. Flexible plastic tubing. 3,122,171, 2-25-64, Cl. 138-129.
- Britton, Ralph H., Jr.: See—
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- Kruse, Frederick W., Jr., and Britton. 3,145,351.

- Britton, Richard B.: See—
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 Britton, Richard K., to The Borden Co. Water resistant starch adhesive. 3,133,890, 5-19-64, Cl. 260—17.4.
 Broadbent, Kent D., to Hughes Aircraft Co. Thin film magnetic device. 3,125,746, 3-17-64, Cl. 340—17.4.
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 Cran, William B. G. 3,162,765.
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 Broadhead, Ronald L., to Standard Oil Co. Lubricant. 3,133,958, 5-19-64, Cl. 260—47.5.
 Broadhead, Ronald L., to Tee-Pak, Inc. Coloring of regenerated cellulose articles. 3,150,984, 9-29-64, Cl. 99—17.6.
 Broadhead, Samuel L., Jr., to Collins Radio Co. Multiple-pole two-position dual-wafer ultra-high-frequency transmit-receive switch control. 3,146,397, 8-25-64, Cl. 325—21.
 Broadhead, Samuel L., Jr., to Collins Radio Co. Switch for progressively connecting circuits in parallel. 3,152,228, 10-6-64, Cl. 200—11.
 Broadhead, Samuel L., Jr., to Collins Radio Co. Binary divider with radix conversion feedback switch. 3,155,820, 11-3-64, Cl. 235—105.
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 Broadrick, Ed B., to James Lees and Sons Co. Tufting machine and looper for producing J-loops. 3,152,563, 10-13-64, Cl. 112—79.
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 Broadwell, Robert J., to Maremont Corp. Manually controlled self-leveling system for a vehicle suspension. 3,140,098, 7-7-64, Cl. 280—6.
 Broadwell, Robert J., to Maremont Corp. Outboard propulsion unit steering assist apparatus. 3,149,605, 9-22-64, Cl. 115—18.
 Broadwell, Robert J., to Maremont Corp. Hydraulic pressure reservoir. 3,149,645, 9-22-64, Cl. 138—30.
 Broadwell, Robert J., to Maremont Corp. Self-dumping suspension unit. 3,149,830, 9-22-64, Cl. 267—64.
 Broberg, George B., Johansson, and S. Wallin, to Aktiebolaget Svenska Plaktfabriken. Duct coupling for joining ducts. 3,141,687, 7-21-64, Cl. 285—397.
 Brocard, Jean M. R. Aircraft. 3,128,062, 4-7-64, Cl. 244—23.
 Brocato, James A. Coll spring compressing tool. 3,132,843, 5-12-64, Cl. 254—10.5.
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 Broder, Leonard. Trouble light guard. 3,119,568, 1-28-64, Cl. 240—102.
 Broderick, John F., N. G. Tompkins, and M. Nimoy, to W. R. Grace & Co. Flexible printing plates with improved printing surfaces. 3,147,705, 9-8-64, Cl. 101—379.
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 Broers, Gerard H. J., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Fuel cell electrolyte. 3,120,456, 2-4-64, Cl. 136—86.
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- Brooks, John D., to United States of America, Navy. Acoustic torpedo warhead and transducer apparatus. 3,145,679, 8-25-64, Cl. 114-23.
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- Brose, Harlan F., to United Aircraft Corp. Inverse labyrinth liquid seal. 3,162,451, 12-22-64, Cl. 277-53.
- Bröse, Heinrich. Window. 3,160,926, 12-15-64, Cl. 20-53.
- Broske, William F., to AMP Inc. Safety plug for explosive cartridge. 3,155,039, 11-3-64, Cl. 102-38.
- Broske, William F., and W. E. Jaycox, to AMP Inc. Explosively actuated crimping tool. 3,163,200, 12-29-64, Cl. 153-1.
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- Bross, Helmut K., 50% to F. T. Johann. Writing instrument. 3,158,138, 11-24-64, Cl. 120-42.1.
- Bross, Theodore D., Line Construction Corp., The: See—
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- Brown, Herbert C. Novel organoboron compounds. 3,161,686, 12-15-64, Cl. 260-606.5.
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- Brown, James O., to National Tank Co. Compensated integrator. 3,135,115, 6-2-64, Cl. 73-223.
- Brown, James R., and J. Sharpe, to Electric & Musical Industries Ltd. Radio-activity contamination monitor with discrimination means for alpha and beta radiation. 3,126,482, 3-24-64, Cl. 250-83.3.
- Brown, Jerome E.: See—
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- Brown, Jerome E., to Ethyl Corp. Engine operation and compositions thereof. 3,160,592, 12-8-64, Cl. 252-49.7.
- Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Cyclopentadienyl manganese tricarbonyl-containing fuels, lubes and additive fluids. 3,127,351, 3-31-64, Cl. 252-49.7.
- Brown, Jessie H., to Southern Coatings and Chemical Co. Bark removing machine. 3,119,422, 1-28-64, Cl. 144-208.
- Brown, John A. Self anchoring bolt having line contact between the male and female wedge members. 3,117,483, 1-14-64, Cl. 85-24.
- Brown, John A. Bolt loading indicator. 3,150,557, 9-29-64, Cl. 85-62.
- Brown, John C. Anti-skid tire chain mounting arrangement. 3,151,653, 10-6-64, Cl. 152-233.
- Brown, John F., Jr., to General Electric Co. Bicycle [3.3.3] pentasiloxanes. 3,145,225, 8-18-64, Cl. 260-448.2.
- Brown, John J., and S. Bernstein, to American Cyanamid Co. Dienic steroids and method of preparing the same. 3,118,919, 1-21-64, Cl. 260-397.45.

- Brown, John J., and G. F. Ruppenicker, Jr., to United States of America, Agriculture. Method for producing bulked, highly stretchable textured cotton yarns. 3,127,732, 4-7-64, Cl. 57-164.
- Brown, John J., and S. Bernstein, to American Cyanamid Co. Substituted 19-norandrosta-5(10),9(11)-dienes and method of preparing same. 3,143,557, 8-4-64, Cl. 260-397.5.
- Brown, John J., R. H. Lenhard, and S. Bernstein, to American Cyanamid Co. Methods of preparing 3-alkylenedioxy Δ^4 steroids and products resulting therefrom. 3,158,602, 11-24-64, Cl. 260-239.55.
- Brown, John K., to Burroughs Corp. Punched card reader and switch contact. 3,152,247, 10-6-64, Cl. 235-61.11.
- Brown, John W., Jr., and J. W. Nevins, to Brown Flintube Co. Union for connecting conduits. 3,155,404, 11-3-64, Cl. 285-137.
- Brown, Joseph, to United States of America, Navy. Underwater missile launching system. 3,137,203, 6-16-64, Cl. 89-17.
- Brown, Joseph M., and A. D. Evans, to Texas Instruments Inc. Semiconductor integrated circuit utilizing field-effect transistors. 3,130,377, 4-21-64, Cl. 331-108.
- Brown, Joseph P., to Monsanto Chemicals Ltd. Preparation of 2-quandinoquinazoline compounds. 3,149,113, 9-15-64, Cl. 260-256.4.
- Brown, Joseph P., to Monsanto Chemicals Ltd. 4-baloalkyl-2,2-dialkyl-1,2-dihydroquinolines and process for the preparation thereof. 3,149,117, 9-15-64, Cl. 260-283.
- Brown, Julian, Jr., and B. J. Duncan, to Sperry Rand Corp. Broadband gyromagnetic coupling limiter employing a plurality of narrow-bandwidth gyromagnetic elements. 3,128,439, 4-7-64, Cl. 333-24.2.
- Brown, Justin L. Rotisserie. 3,126,814, 3-31-64, Cl. 99-421.
- Brown, Karl L., W. K. H. Panofsky, and J. F. Strelb; said Panofsky and said Strelb assors, to said Brown. Method of focusing charged particles to provide zero momentum dispersion. 3,138,706, 6-23-64, Cl. 250-41.9.
- Brown, Kenard D. Fitting. 3,120,401, 2-4-64, Cl. 285-149.
- Brown, Kenneth A., to United States Steel Corp. Apparatus for coiling wire. 3,135,477, 6-2-64, Cl. 242-83.
- Brown, Kenneth J., to The Foxboro Co. Actuators for positioning a control valve or other member in accordance with an electrical signal. 3,159,038, 12-1-64, Cl. 74-1.
- Brown, Kenneth M., to Universal Oil Products Co. Manufacture of individual disulfides. 3,143,574, 8-4-64, Cl. 260-608.
- Brown, Kenneth N., to Yardney International Corp. Process for preparing molten silver chloride by the controlled reaction of chlorine on charge of metallic silver. 3,147,073, 9-1-64, Cl. 23-87.
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- Brown, Lawrence E., and C. S. Nunan, to Varian Associates. Linear particle accelerator apparatus for high energy particle beams provided with pulsing means for the control electrode. 3,133,227, 5-12-64, Cl. 815-54.2.
- Brown, Lee R., and P. W. Geery, to Dresser Industries, Inc. Oscillographic recorder. 3,129,999, 4-21-64, Cl. 346-109.
- Brown, Lewis J., to Pennsalt Chemicals Corp. Corrosion preventive process. 3,128,210, 4-7-64, Cl. 134-29.
- Brown, Martin K., to Radio Corp. of America. Plural parallel electron-guns. 3,134,923, 5-26-64, Cl. 313-271.
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- Brown, Morris E.: See—
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- Brown, Morris E., to Eastman Kodak Co. Film loading cassette. 3,147,932, 9-8-64, Cl. 242-71.2.
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- Brown, Ned C. L., to General Signal Corp. Automatic car retarder. 3,163,259, 12-29-64, Cl. 188-62.
- Brown, Neil. Collapsible frame with bent bottom ring. 3,133,550, 5-19-64, Cl. 135-5.
- Brown, Noah G., Jr., to Burlington Industries, Inc. Puffed fabrics. 3,146,800, 9-1-64, Cl. 139-384.
- Brown, Norman F., to Otis Engineering Corp. Spring driven actuating mechanism for low torque valves. 3,122,351, 2-25-64, Cl. 251-73.
- Brown, Norman R., J. A. Gustafson, and C. E. Herider, to General Motors Corp. Tape dispensing apparatus. 3,128,217, 4-7-64, Cl. 156-355.
- Brown, Northrop, W. P. Langsdorf, Jr., and C. E. Schweitzer, to E. I. du Pont de Nemours and Co. Polyoxymethylene diethers. 3,161,616, 12-15-64, Cl. 260-67.
- Brown Oil Tools, Inc.: See—
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- Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. One-component room temperature curing system employing new silicone intermediates. 3,122,522, 2-25-64, Cl. 260-46.5.
- Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Preparation of linear siloxanes. 3,146,251, 8-25-64, Cl. 260-448.8.
- Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Polyfunctional alkoxy endblocked polysiloxanes and their cured compositions. 3,161,614, 12-15-64, Cl. 260-46.5.
- Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Preparation of linear chlorosiloxanes from cyclotrisiloxanes. 3,162,662, 12-22-64, Cl. 260-448.2.
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- Brown, Ray. Safety belt buckle. 3,145,442, 8-25-64, Cl. 24-230.
- Brown, Raymond E., and T. A. Crugnale. Spelling devices. 3,146,534, 9-1-64, Cl. 35-35.
- Brown, Raymond M.: See—
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- Brown, Richard H. Apparatus for making artificial snow. 3,146,951, 9-1-64, Cl. 239-399.
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- Brown, Richard P., and J. H. Jacobs, to Consolidated Electrodynamics Corp. Rapid intensification of printout material. 3,144,332, 8-11-64, Cl. 96-27.
- Brown, Richard R., to Brown Tool Engineering Co. Offset lower anvil for an automatic riveting machine. 3,127,044, 3-31-64, Cl. 218-1.
- Brown, Richard R. Guard for honeycomb cutters. 3,156,349, 11-10-64, Cl. 206-46.
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- Brown, Robert J., to The Goodyear Tire & Rubber Co. Pneumatic tires having improved threads. 3,157,218, 11-17-64, Cl. 152-330.
- Brown, Robert J., D. B. Derr, and F. C. Gut, to International Business Machines Corp. Selective printing apparatus. 3,141,403, 7-21-64, Cl. 101-99.
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- Brown, Robert N., D. Balber, and G. V. Rylsky, to General Precision Inc. Device for measuring gas pressure by means of alpha particles. 3,141,970, 7-21-64, Cl. 250-43.5.
- Brown, Robert R., to Elastic Stop Nut Corp. of America. Electrical connection and components. 3,148,011, 9-8-64, Cl. 339-218.
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- Brown, Robert S., D. F. Turner, and N. E. Welter, to Railway Maintenance Corp. Surface smoothing machine. 3,150,608, 9-29-64, Cl. 104-7.
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- Brunk, Harold J. Blueprint paper and coating composition including polyvinyl alcohol for making same. 3,140,950, 7-14-63, Cl. 96-92.
- Brunkan, Gus H. Boom means. 3,143,216, 8-4-64, Cl. 212-61.
- Brunkhardt, Frederick W., and N. E. Whitney, to United Aircraft Corp. Injector nozzle for rocket propellants. 3,134,227, 5-26-64, Cl. 60-39.46.
- Brunn, John, to Varian Associates. Tuning of cavity resonators for reflex klystrons by means of magnetically controlled ferrite materials. 3,118,082, 1-14-64, Cl. 315-5.21.
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- Brunner, Alfred, to Sulzer Freres, Societe Anonyme. Control system for heat exchanger. 3,126,053, 3-24-64, Cl. 165-40.
- Brunner, Alfred, to Sulzer Freres S.A. Forced flow steam generating plants including a reheater. 3,129,564, 4-21-64, Cl. 60-67.
- Brunner, Alfred, to Sulzer Freres, S.A. Multiple fuel firing method and apparatus. 3,135,314, 6-2-64, Cl. 158-11.
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- Brunner, Alfred, to Sulzer Freres, S.A. Steam generating plant. 3,144,856, 8-18-64, Cl. 122-406.
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- Brunner, Alfred, to Sulzer Freres, S.A. Fluid cooled nuclear reactor plant. 3,162,581, 12-22-64, Cl. 176-59.
- Brunner, David H., to Philco Corp. System for selectively modifying amplitude of TV chrominance subcarrier to overcome color desaturation by synthesizing like-frequency compensating signal with subcarrier. 3,143,598, 8-4-64, Cl. 178-5.4.
- Brunner, Emil, to Lonza, Electric and Chemical Works Ltd. Method of forming shaped cellular bodies. 3,160,689, 12-8-64, Cl. 264-54.
- Brunner, Henry, and M. J. Waghorn, to Imperial Chemical Industries Ltd. Polyepoxide compositions. 3,134,754, 5-26-64, Cl. 260-47.
- Brunner, Julius, F. Kührt, and E. Rainer, to Siemens-Schuckertwerke Aktiengesellschaft. Magnetic-field responsive electric switching device. 3,158,756, 11-24-64, Cl. 307-88.5.
- Brunner, Mathias J., to General Electric Co. Passive transpiration cooling system. 3,159,012, 12-1-64, Cl. 62-467.
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- Brunson, Virgil A., to Blackmer Pump Co. Automatic pressure relief valve. 3,160,332, 12-8-64, Cl. 222-318.
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- Brussell, Jacob. Heating oven for foods. 3,131,280, 4-28-64, Cl. 219-35.
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- Brutt, Frederick J., and A. J. Mazanek, to Westinghouse Electric Corp. Wound magnetic core structure for inductive apparatus. 3,153,214, 10-13-64, Cl. 336-213.
- Brutten, Eugene J., B. B. Gray, D. E. Rose, and R. J. Falk, to Southern Illinois University Foundation. Fingerprinting apparatus. 3,163,557, 12-29-64, Cl. 118-11.
- Brutvan, William J., and C. F. Foster. Grinding wheel. 3,144,739, 8-18-64, Cl. 51-206.5.
- Bruyere, Marcel, to Societe d'Exploitation des Matieres Hispano-Suizas. Aircraft including a plurality of power plants and a plurality of rotary propellers. 3,121,546, 2-18-64, Cl. 244-55.
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- Bryan, John F., Jr., to Kershaw Mfg. Co., Inc. Vertically-reciprocating saw apparatus for cutting crosspieces. 3,161,213, 12-15-64, Cl. 143-68.
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- Bryan, Paul A., to United States of America, Air Force. Network component failure location apparatus. 3,119,104, 1-21-64, Cl. 340-248.
- Bryan, Paul J., to E. I. du Pont de Nemours and Co. Water impervious detonator. 3,128,703, 4-14-64, Cl. 102-28.
- Bryan, Wilbur L.: See—
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- Bryan, William L., to E. I. du Pont de Nemours and Co. Flame treatment of polymeric film and apparatus. 3,145,242, 8-18-64, Cl. 264-80.
- Bryan, William L., and D. E. Swarts, to E. I. du Pont de Nemours and Co. Flame treatment of polyvinyl fluoride film. 3,153,683, 10-20-64, Cl. 264-80.
- Bryan, William L., and D. E. Swarts, to E. I. du Pont de Nemours and Co. Flame treatment of polyvinyl fluoride film. 3,153,684, 10-20-64, Cl. 264-80.
- Bryand, Edward T., to Metal-Tech, Inc. Suction roll assembly. 3,139,375, 6-30-64, Cl. 162-371.
- Bryant Chucking Grinder Co.: See—
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- Bryant, Clifford, R. F. Hackney, and O. C. Payne, to Cabin Crafts, Inc. Tufting machine with needle selector. 3,160,125, 12-8-64, Cl. 112-79.
- Bryant, Clifford A., to Cabin Crafts, Inc. Machine for producing cut and uncut pile. 3,155,059, 11-3-64, Cl. 112-79.
- Bryant, Donald L.: See—
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- Bryant, Goble W., to Interstate Bag Co., Inc. Handled shopping bags. 3,152,750, 10-13-64, Cl. 220-54.
- Bryant, Harold A., and J. H. Marcotte, to Brown & Sharpe Mfg. Co. Automatic bleeder valve. 3,137,213, 6-16-64, Cl. 91-420.

- Bryant, Harvey L., to Jersey Production Research Co. Bore-hole flowmeter. 3,163,038, 12-29-64, Cl. 73-155.
- Bryant, Henry E. Safety control for a chucking machine. 3,131,456, 5-5-64, Cl. 29-33.
- Bryant, Herbert W., to Bell Telephone Laboratories, Inc. Dashpot. 3,161,261, 12-15-64, Cl. 188-96.
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- Bryant, John G., to The Cambridge Wire Cloth Co. Self-releasing sling. 3,129,031, 4-14-64, Cl. 294-75.
- Bryant, Marvin H., to General Motors Corp. Resiliently mounted radiator assembly. 3,121,467, 2-18-64, Cl. 180-68.
- Bryant, Marvin H., to General Motors Corp. Radiator with resilient mounting. 3,123,170, 3-3-64, Cl. 180-68.
- Bryant, Ozo N., to Westinghouse Electric Corp. Speed sensing apparatus. 3,136,326, 6-9-64, Cl. 137-36.
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- Bryant, William J. Cover hold-down device. 3,141,210, 7-21-64, Cl. 24-73.
- Bryce-Smith, Derek, and E. T. Blues, to National Research Development Corp. Preparation of a halogen containing organo-magnesium material. 3,143,577, 8-4-64, Cl. 260-605.
- Brydolf, Robert, and C. A. Tucker, to Acme Appliance Mfg. Co. Surface mounted folding door hardware. 3,162,890, 12-29-64, Cl. 16-129.
- Brydon, Edward W. Convertible top interlock. 3,122,394, 2-25-64, Cl. 296-120.
- Brydon, John P. Straining apparatus. 3,157,131, 11-17-64, Cl. 103-220.
- Brye, Edwin. Perforating device. 3,120,778, 2-11-64, Cl. 83-633.
- Bryer, Jack, to R. Hoe & Co., Inc. Rotary folding mechanism drive means. 3,144,249, 8-11-64, Cl. 270-77.
- Brymer, Andrew E., Jr., to Owens-Illinois Glass Co. Adapter for sizing and cooling ware. 3,133,806, 5-10-64, Cl. 65-268.
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- Bryner, Ernest J.: See—
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- Bryner, Ernest J., and J. N. Ianuzzi, to Sigma Engineering Service, Inc. Lead straightening machine. 3,146,505, 9-1-64, Cl. 140-147.
- Bryner, Fred, and A. J. Dietzler, to The Dow Chemical Co. Chlorination of bisphenols. 3,143,575, 8-4-64, Cl. 260-619.
- Brys, Harry E., to Armco Steel Corp. Method and apparatus utilizing a magnetic armature and sensing coil for determining flatness. 3,161,824, 12-15-64, Cl. 324-34.
- Bryson, Henry K., A. B. Castle, and M. A. Jaten. Door holders and door stops. 3,143,452, 12-29-64, Cl. 292-75.
- Bryson, James L., to Bryson Mfg. Co., Inc. Bobbin control for sewing machines. 3,124,088, 3-10-64, Cl. 112-219.
- Bryson Mfg. Co., Inc.: See—
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- Brzozowski, Witold B. Dual fuel burner. 3,153,438, 10-20-64, Cl. 158-11.
- Bua, William J. Article dispenser having a removable supply cartridge. 3,156,378, 11-10-64, Cl. 221-197.
- Bubbenmeyer, Clarence L., 49% to Pandora Tool and Die of Lorane. Internal combustion engine control. 3,154,689, 10-27-64, Cl. 290-38.
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- Buc, Dolores M.: See—
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- Buc, Saul R., and D. I. Randall, to General Aniline & Film Corp. Aminobenzylsulfonylethanol compounds. 3,118,943, 1-21-64, Cl. 260-575.
- Buc, Saul R., deceased (by D. M. Buc, administratrix), R. Mayhew, and E. P. Williams, to General Aniline & Film Corp. Surface active ethers of N-(hydroxymethyl)-lactams. 3,136,766, 6-9-64, Cl. 260-247.7.
- Buc, Saul R., deceased (D. M. Buc, administratrix), and E. P. Williams, to General Aniline & Film Corp. Substituted imidazolines. 3,138,610, 6-23-64, Cl. 260-309.6.
- Buccione, Darlo, to Buccioni Engineering Co., Inc. Flexible magnetic conveyor. 3,144,927, 8-18-64, Cl. 198-41.
- Buccione, Darlo, to Buccioni Engineering Co., Inc. Magnetic rail conveyor. 3,150,764, 9-29-64, Cl. 198-41.
- Buccione, Darlo, to Buccioni Engineering Co., Inc. Sheet piler with air flow side guides. 3,159,398, 12-1-64, Cl. 271-68.
- Buccione, Darlo, to Buccioni Engineering Co., Inc. Metal sheet handling apparatus. 3,161,278, 12-15-64, Cl. 198-41.
- Buccione Engineering Co., Inc.: See—
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- Buccione, Vello S., to Buccioni Engineering Co., Inc. Sheet handling apparatus. 3,155,387, 11-3-64, Cl. 271-74.
- Buccioni Engineering Co., Inc.: See—
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- Bucek, Edward P., to Curtis-Electro Lighting, Inc. Fluorescent lighting fixture. 3,118,620, 1-21-64, Cl. 240-51.11.
- Bucek, Haus: See—
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- Bucek, Wesley A.: See—
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- Bucha, Harry C., and R. W. Luckenbaugh, to E. I. du Pont de Nemours and Co. Composition and method for regulating plant growth. 3,136,620, 6-9-64, Cl. 71-2.5.
- Buchan, James I., and T. Simpson. Combined storage locker and table. 3,126,286, 3-24-64, Cl. 312-201.
- Buchan, William K., A. B. C. Rankin, and S. W. C. Brown. Ultrasonic inspection apparatus. 3,132,510, 5-12-64, Cl. 73-67.7.
- Buchanan, David L.: See—
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- Buchanan, Melvin L., to Arvin Industries, Inc. Carrying case. 3,128,002, 4-7-64, Cl. 220-4.
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- Buchanan, William E. Fabric for fourdrinier machines. 3,143,150, 8-4-64, Cl. 139-425.
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- Büchner, Karl, J. Meis, and O. Roelen, to Ruhrchemie Aktien-gesellschaft. Process for the production of alcohols. 3,125,605, 3-17-64, Cl. 260-635.
- Buchner, Marvin K., to FMC Corp. Machine for pitting fruit. 3,119,425, 1-28-64, Cl. 146-28.
- Buchner, Norbert, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Heat sealing apparatus. 3,162,564, 12-22-64, Cl. 156-498.
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- Burba, Bernard T., to Recreation Supply Co. Controlled-flow-inlet swimming pool system. 3,157,597, 11-17-64, Cl. 210-137.
- Burbach, John C., to Union Carbide Corp. Phthalocyanine chelates. 3,137,703, 6-16-64, Cl. 260-314.5.
- Burback, Charles W., Fish lures. 3,125,822, 3-24-64, Cl. 43-42.48.
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- Burbank, John E., Means of and apparatus for making and mating coils of filamentary material. 3,145,523, 8-25-64, Cl. 57-1.
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- Burbank, John E., to Scovill Mfg. Co. Fastener end terminal. 3,162,918, 12-29-64, Cl. 24-205.11.
- Burbank, Robert C., to Jantzen Inc. Men's swim suit construction with embedded suspensory. 3,141,458, 7-21-64, Cl. 128-159.
- Burbeck, Donald W., E. E. Bolles, W. E. Frady, Jr., W. L. Exner, J. D. Hogan, and A. D. Scarbrough, to United States of America, Air Force. Automatic shoran bombing system. 3,154,780, 10-27-64, Cl. 343-13.
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- Burch, Archie E., Precision applicator. 3,140,017, 7-7-64, Cl. 222-197.
- Burch, Charles J., to Union Carbide Corp. Metal casting in a protective atmosphere. 3,142,099, 7-28-64, Cl. 22-214.
- Burch, Donald C., R. E. Troslen, R. Helle, and R. C. Woofter, to General Motors Corp. Vehicle-panel connector. 3,146,052, 8-25-64, Cl. 339-91.
- Burch, Homer A., to The Norwich Pharmacal Co. 4,5-dihydro-6-(5-nitro-2-furyl)-as-triazin- or pyridazin-3(2H)-one. 3,138,593, 6-23-64, Cl. 260-248.
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- Burch, Robert J., and C. E. Schildknecht, to Air Reduction Co., Inc. Stabilization of ene-yne compounds. 3,117,167, 1-7-64, Cl. 260-668.5.
- Burch, William B., to See—
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- Burckhalter, Robert N., to Commercial Filters Corp. By-pass assembly for filters. 3,161,589, 12-15-64, Cl. 210-130.
- Burckhardt, Manfred H., to See—
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- Burckhardt, Otto, to Eisenwerk Hensel. Stone sawing machines. 3,120,223, 2-4-64, Cl. 125-16.
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- Burden, Richard W., and W. S. Halstead. Compatible stereophonic broadcast system. 3,117,186, 1-7-64, Cl. 179-15.
- Burden, Robert W., and D. L. Schmidt, to Ling-Temco-Vought, Inc. Actuator. 3,152,522, 10-13-64, Cl. 92-112.
- Burdeshaw, Thomas A., to Southern States Inc. Drop out fuse having motivating means and slidably mounted on one of its terminals. 3,153,126, 10-13-64, Cl. 200-114.
- Burdett, John T., to Harper-Wyman Co. Thermostatic gas valve. 3,125,293, 3-17-64, Cl. 236-99.
- Burdick, Everette M., Method of cultivating papaya plants and for recovering proteolytic enzymes from papaya plants. 3,141,832, 7-21-64, Cl. 195-66.
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- Burdick, Ralph V., and R. V. Burdick, Jr. Container with snap-off cover. 3,130,857, 4-28-64, Cl. 220-43.
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- Burdick, Richard. Coin storing and displaying devices. 3,139,977, 7-7-64, Cl. 206-83.
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- Burdock, Joseph L., and A. J. Clom, to Aerotec Industries, Inc. Multiple compartment centrifugal separator. 3,147,099, 9-1-64, Cl. 55-344.
- Bureau, Alfred C., to The United Steel Companies Ltd., and Henry Balfour & Co. Ltd. Apparatus for contacting fluidized solid particles with gas. 3,117,844, 1-14-64, Cl. 23-260.
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- Bureau d'Etudes Industrielles Fernand Courtoy, to See—
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- Bureau d'Etudes Nucleaires en abregé B.E.N., to See—
Erkes, Pierre A. 3,128,963.
- Burford, Charles L., Random time interval generator. 3,155,848, 11-3-64, Cl. 307-106.
- Burford Co., The, to See—
Burford, Earl E. 3,138,904.
- Burford, Earl E., to The Burford Co. Method and apparatus for tying packages and wrapping materials. 3,138,904, 6-30-64, Cl. 53-14.
- Burg, Anton B., and L. R. Grant, to American Potash & Chemical Corp. Preparation of bis-phosphines. 3,118,951, 1-21-64, Cl. 260-606.5.
- Burg, Fred G., to Burgmaster Corp. Lead screw operated tapping spindle with quick acting reversing means. 3,145,401, 8-25-64, Cl. 10-137.
- Burg, Joseph L., to Burgmaster Corp. Reciprocating feed device for machine tools. 3,129,613, 4-21-64, Cl. 77-25.
- Burg, Joseph L., to Burgmaster Corp. Spindle selector for machine having a turret head. 3,138,974, 6-30-64, Cl. 77-25.
- Burg, Kenneth E., to See—
Brock, Fred A., Burg, and Smith. 3,118,126.
- Burgan, Wilfred G., Jr., to See—
Siebert, Cletus J., and Burgan. 3,161,132.
- Burger, Alfred, to Smith Kline & French Laboratories. 1-methyl-2-phenylcyclopropylamine derivatives. 3,153,092, 10-18-64, Cl. 260-570.5.
- Burger, Emmett E., to See—
Lafferty, James M., Cobine, and Burger. 3,125,441.
- Burger, Erich, to See—
Baur, Carl, and Burger. 3,130,658.
- Burger, Francis J. P. J., and D. M. Cheseldine, to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence. Electrolytic capacitors and electrolyte therefor. 3,138,746, 6-23-64, Cl. 317-230.
- Burger, Heinz, to See—
Pohlmann, Heinz, Burger, and Leichte. 3,150,166.
- Burger, Leland L., to United States of America, Atomic Energy Commission. Extraction of plutonium and uranium values from aqueous solution. 3,157,463, 11-17-64, Cl. 23-14.5.
- Burger, Nicholas J., and E. W. Meng, to Electro-Therm, Inc. Welding preheater. 3,158,735, 11-24-64, Cl. 219-342.
- Burger, Raymond, Continuous chain press. 3,121,862, 2-11-64, Cl. 144-281.
- Burger, William H., to Kimberly-Clark Corp. Papermaking machine. 3,146,849, 9-1-64, Cl. 83-86.
- Burgess, Carlton M., to General Motors Corp. Snap-on connected plate structure. 3,149,747, 9-22-64, Cl. 220-60.
- Burgess, Carter L., to American Machine & Foundry Co. Manually or automatically illuminated bowling guide. 3,120,956, 2-11-64, Cl. 273-54.
- Burgess Cellulose Co., to See—
Petroff, Merlin O., and Congdon. 3,145,485.
- Burgess, Frank H., G. Mathus, and O. Morningstar, to Morningstar Corp. Reel case. 3,138,250, 6-23-64, Cl. 206-52.
- Burgess, Herbert R., to See—
Lucianetti, John J., Hlsekorn, and Burgess. 3,143,820.
- Burgess, Hovey M., and J. B. Johnson, to General Foods Corp. Binder product and process. 3,159,505, 12-1-64, Cl. 127-32.
- Burgess, James V., Jr. Mine ventilation control system. 3,118,363, 1-21-64, Cl. 98-50.
- Burgess, Leonard G., to See—
Hillger, Frederick B., and Burgess. 3,145,834.
- Burgess-Manning Co., to See—
Baggeson, Russell E. 3,150,945.
- Burgess-Norton Mfg. Co., to See—
Halter, Edmund J. 3,148,246.
- Burgess, Leslie A., to See—
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- Burgess, Gustav M., to See—
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- Burgess Products Co. Ltd., to See—
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- Burgess Vibrocrafters, Inc., to See—
Congdon, George L., and Benkovich. 3,156,044.
- Burgess, Kenneth V., and Soder. 3,161,985.
- Burggren, Robert C., to Honeywell Inc. Pressure sensing apparatus. 3,161,059, 12-15-64, Cl. 73-398.
- Burggren, Robert C., and C. H. Waldhauer, Jr., to Minneapolis-Honeywell Regulator Co. Air data computing apparatus. 3,135,861, 6-2-64, Cl. 235-151.
- Burgher, Maurice W., to See—
Blackington, Paul A., and Burgher. 3,125,704.
- Burghoff, Henry L., and F. G. Parker, to Chase Brass & Copper Co. Inc. Copper base alloys and the method of treating the same to improve their machinability. 3,158,470, 11-24-64, Cl. 75-135.
- Burgin, Kenneth, to See—
Creasey, Raymond F., and Burgin. 3,130,944.
- Burgin, Kermit H., 80% to F. B. Cline. Water jet drive. 3,128,740, 4-14-64, Cl. 115-12.
- Burgio, Raymond A., Jr. Pocketbook construction. 3,144,065, 8-11-64, Cl. 150-35.
- Burgis, Clare N., to United States of America, Navy. Cascaded relay channel selecting system. 3,147,385, 9-1-64, Cl. 307-38.
- Burgmaster Corp., to See—
Burg, Fred G. 3,145,401.
- Burg, Joseph L. 3,129,613.
- Burg, Joseph L. 3,138,974.

- Burgoon, David W., and E. J. Ciabattari, to Yeomans Bros. Co. Apparatus for sewage treatment. 3,149,071, 9-15-64, Cl. 210-197.
- Burgoon, Jack L., to American Lincoln Corp. Scrubbing machine. 3,121,895, 2-25-64, Cl. 15-50.
- Burgsmueller, Karl. Deep hole boring. 3,158,043, 11-24-64, Cl. 77-5.
- Burgy, Raymond A., to Toledo Scale Corp. Dispatching control for a group of elevators. 3,126,982, 3-31-64, Cl. 187-29.
- Burhans, Ralph W., W. Jackson, Jr., and P. J. Stevko, to The Standard Oil Co. Computing apparatus. 3,134,017, 5-19-64, Cl. 235-180.
- Burhorn, Friedrich, to See—
Goeschel, Heinz, and Burhorn. 3,160,768.
- Burton, Etienne P., and R. A. M. Toesca. Power-driven compressor device. 3,162,357, 12-22-64, Cl. 230-56.
- Burk, Emmett H., Jr., H. Erickson, and A. D. Anderson, to Sinclair Research, Inc. Method of removing nickel and vanadium from synthetic gel silica-based catalysts. 3,122,510, 2-25-64, Cl. 252-413.
- Burk, George A., to See—
Asadorian, Arthur A., and Burk. 3,130,222.
- Burk, George A., and R. A. Davis, to The Dow Chemical Co. Preparation of bromochloropirins. 3,159,686, 12-1-64, Cl. 260-644.
- Burk, Hurdle H., Jr., to See—
Braen, Henry P., and Burk. 3,119,102.
- Burk, Hurdle H., Jr., to International Business Machines Corp. Position indicating means. 3,148,325, 9-8-64, Cl. 323-51.
- Burk, Jo G. Drip dry shower curtain rod. 3,119,496, 1-28-64, Cl. 211-105.1.
- Burk, Lucius O., and F. J. Will, to General Motors Corp. Expendable pallet and leg. 3,130,692, 4-28-64, Cl. 106-51.
- Burk, Marvin C., to Phillips Petroleum Co. Electrical measuring apparatus. 3,121,160, 2-11-64, Cl. 235-92.
- Burk, Marvin C., to Phillips Petroleum Co. Electrical measuring apparatus. 3,152,301, 10-6-64, Cl. 323-75.
- Burk, Marvin C., and C. E. Jones, to Phillips Petroleum Co. Timing apparatus. 3,119,995, 1-28-64, Cl. 340-347.
- Burk, Robert E. Process of forming acrylic resin casting using a perfluorocarbon surfaced mold. 3,142,715, 7-28-64, Cl. 264-213.
- Burkardt, Lohr A., to See—
Williams, Mary M., and Burkardt. 3,140,207.
- Burke, Arthur J., to Scale Co. Weighing systems. 3,124,206, 3-10-64, Cl. 177-46.
- Burke, Arthur J., to Richardson Corp. Material handling and dispensing apparatus. 3,142,419, 7-28-64, Cl. 222-236.
- Burke, Arthur J., to Howe Richardson Scale Co. Card reader. 3,148,251, 9-8-64, Cl. 200-46.
- Burke Concrete Accessories, Inc., to See—
Gaetke, George O. 3,143,783.
- Kay, John D. 3,128,524.
- Kay, John D. 3,128,525.
- Burke, Daniel B., and F. M. Ketch, to General Foods Corp. Method of making yeast-raised baked products. 3,144,338, 8-11-64, Cl. 99-90.
- Burke, Derek C., to National Research Development Corp. Process for the purification of interferon. 3,144,390, 8-11-64, Cl. 167-78.
- Burke, Frederick A., to See—
Kolster, Harvey L., Burke, and Long. 3,120,199.
- Burke, George F. C., to See—
Bradley, Robert W., and Burke. 3,156,432.
- Burke, George F. C., to See—
Cardani, Charles P., Romeo, Burke, and Hanson. 3,142,896.
- Burke, George J. Devices for locating oil fill caps or boxes. 3,120,067, 2-4-64, Cl. 40-10.
- Burke, Harry E., to Consolidated Systems Corp. Telephone call accounting system. 3,160,709, 12-8-64, Cl. 179-7.1.
- Burke, James D. J., Jr., and C. O. Hawkins, to E. I. du Pont de Nemours and Co. Method for forming spinning orifices in splinter plate structures. 3,141,358, 7-21-64, Cl. 76-107.
- Burke, Jerry A., Jr., to See—
Barnes, Vernon M., Jr., Burke, King, and Wolf. 3,139,794.
- Burke, John A., to See—
Sennhauser, George J., and Burke. 3,121,594.
- Burke, John C., to See—
Considine, William J., Bernstein, and Burke. 3,156,722.
- Burke, Joseph E., to United States of America, Atomic Energy Commission. Method of making fuel compacts for neutron systems. 3,156,747, 11-10-64, Cl. 264-21.
- Burke, Nelson W., to Minneapolis-Honeywell Regulator Co. Electrical apparatus for monitoring a record tape. 3,146,430, 8-25-64, Cl. 340-174.1.
- Burke, Norman E., to General Electric Co. Packaging carton for clocks or the like. 3,123,274, 3-3-64, Cl. 229-14.
- Burke, Oliver W., Jr., to See—
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- Stahly, Eldon E. 3,126,412.
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- Stahly, Eldon E. 3,163,616.
- Burke, Oliver W., Jr., O. M. Grace, and R. G. Jennen, deceased, by M. Berry, temporary public administrator; said Grace and said Berry assigns, to said Burke, Jr. Process for the preparation of aqueous dispersions of graft interpolymer material. 3,144,426, 8-11-64, Cl. 260-29.7.
- Burke, Roger E., to See—
Tinker, George H., and Burke. 3,152,894.
- Tinker, George H., Mal, and Burke. 3,152,895.
- Burkert, George M., and K. A. Walsh, to International Minerals & Chemical Corp. Production of amine fluorides. 3,134,815, 5-26-64, Cl. 260-583.
- Burket, Richard S., to E. I. du Pont de Nemours and Co. Tray packages. 3,119,492, 1-28-64, Cl. 206-62.
- Burket, Richard S., and R. E. Clough, to E. I. du Pont de Nemours and Co. Packages. 3,123,209, 3-3-64, Cl. 206-62.
- Burket, Robert E., and D. M. Stewart, to Allegheny Ludlum Steel Corp. Method of annealing magnetic materials. 3,138,494, 6-23-64, Cl. 148-103.
- Burkett, Albert L. Commutation device. 3,160,354, 12-8-64, Cl. 241-275.
- Burkett, Francis L., to See—
Foerster, George S., and Burkett. 3,125,443.
- Foerster, George S., and Burkett. 3,125,444.
- Burkhalter, James H., to Courtaulds, Ltd. Textile manufacturing process and apparatus. 3,117,598, 1-14-64, Cl. 139-319.
- Burkhalter, Robert R., and R. E. Fletcher, to Dana Corp. Transfer case gearing. 3,149,505, 9-22-64, Cl. 74-665.
- Burkhardt, Hermann, to See—
Brugger, Hugo, and Burkhardt. 3,123,595.
- Burkhardt, John, to American Machine & Foundry Co. Cigarette machine for making mouthpiece cigarettes. 3,156,246, 11-10-64, Cl. 131-94.
- Burkhardt, Charles E., and B. B. Ellis, to Westinghouse Electric Corp. Magnetic core structure. 3,153,215, 10-13-64, Cl. 336-217.
- Burkhardt, Gisbert, to Telefunken Patentverwertungs-G.m.b.H. Shift register control for article handling device. 3,141,540, 7-21-64, Cl. 198-38.
- Burkhardt, Inh. Dipl.-Ing., to See—
Folda, Heinz, and Hain. 3,119,226.
- Burkhardt, Rudolf, to Chemische Werke Witten G.m.b.H. Process for producing pure sodium salts of 5-sulfophthalic acid and 2-sulfo-terephthalic acid. 3,135,787, 6-2-64, Cl. 260-507.
- Burkhart, Charles W., to See—
Futral, Henry M., and Burkhardt. 3,136,924.
- Burkhart, Donald I., to Esco Corp. Back hoe construction. 3,139,200, 6-30-64, Cl. 214-138.
- Burkhart, Lawrence E., to See—
Josephson, Paul R., and Burkhardt. 3,156,534.
- Burkholder, Woodrow C., to Swift & Co. Display cabinet. 3,135,568, 6-2-64, Cl. 312-116.
- Burkig, Jack W., and J. E. Richardson, to Hughes Aircraft Co. Electrical interconnection grid and method of making same. 3,128,332, 4-7-64, Cl. 174-68.5.
- Burkig, Jack W., and J. E. Richardson, to Hughes Aircraft Co. Method of making an electrical interconnection grid. 3,142,112, 7-28-64, Cl. 29-155.5.
- Burkin, Alfred R., and H. D. Sawyer, to National Research Development Corp. Treatment of pyrochlore. 3,141,766, 7-21-64, Cl. 75-114.
- Burkitt, Keith G., to Ford Motor Co. Independent suspension. 3,139,275, 6-30-64, Cl. 267-20.
- Burkley, Ralph A., D. C. Cully, and J. L. Folk, to Goodyear Aerospace Corp. Laminates. 3,135,645, 6-2-64, Cl. 161-165.
- Burklo, Donald C., to See—
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- Burks, Tilden, to See—
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- Burks, William M., Jr., and R. P. Obrecht, to Stauffer Chemical Co. Chlorination of methane. 3,126,419, 3-24-64, Cl. 260-662.
- Burleigh, Joseph H., to Cutter Mail Chute Co. Sheet-feeding device. 3,155,386, 11-3-64, Cl. 271-26.
- Burleson, Aaron, to Burlington Industries, Inc. Stretch fabric and method of making the same. 3,135,104, 6-2-64, Cl. 66-169.
- Burleson, Aaron, to Burlington Industries, Inc. Hosiery fabric or the like and method of producing the same. 3,153,923, 10-27-64, Cl. 66-178.
- Burley, Billy, to Johnson Service Co. Electronic system including a plurality of selectively operable condition-responsive controls. 3,130,319, 4-21-64, Cl. 307-29.
- Burley, Charles W., to Servicon Instruments, Inc. Electrical transducer. 3,126,519, 3-24-64, Cl. 338-40.
- Burley, Joseph C., to Boston Insulated Wire & Cable Co. Elevator cable. 3,155,769, 11-3-64, Cl. 174-121.
- Burling, Elmer R., and L. A. Carlsmith. Continuous pulping extraction apparatus. 3,156,533, 11-24-64, Cl. 162-237.
- Burling, Herbert S. Temperature control. 3,130,354, 4-21-64, Cl. 317-132.
- Burlington Industries, Inc., to See—
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- Burleson, Aaron. 3,153,923.
- Davis, Gurney G. 3,151,818.
- Gliksmann, David. 3,127,658.
- Hall, Quentin W., and Solomon. 3,124,918.
- Pinson, Marvin J., Jr. 3,153,838.

- Burlison, Garry L., and J. P. Savok. Ventilated boot. 3,128,566, 4-14-64, Cl. 36-3.
- Burman, Joseph O., to Progressive Machinery Corp. Box construction. 3,147,880, 9-8-64, Cl. 220-35.
- Burman, Joseph O., Jr., to Progressive Machinery Corp. Hinged box construction. 3,128,898, 4-14-64, Cl. 220-35.
- Burman, William J.: See—
- Umbrecht, Emil, and Burman. 3,139,171.
- Burmeister, Hans. Protective eye-shield with an automatically controlled visor slit. 3,153,135, 10-13-64, Cl. 219-147.
- Burn, Derek: See—
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- Burn, Derek, B. Ellis, and V. Petrow, to The British Drug Houses Ltd. 3-enol ethers of 2-formyl-3-oxo-5a-steroids and process for preparing same. 3,160,643, 12-8-64, Cl. 260-397.4.
- Burn, Philip H. Marine toilet. 3,154,795, 11-3-64, Cl. 4-177.
- Burdy Corp.: See—
- Anderson, James D., Brautigam, and Cohen. 3,135,043.
- Anderson, James D., and Cheb. 3,159,197.
- Bertram, Joseph J. 3,125,396.
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- Cheb, Ernest L., and Stratton. 3,129,814.
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- Lazar, Michael, and Ruderman. 3,124,407.
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- Noschese, Robert J., and Skowronski. 3,148,928.
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- Solorow, Russell S., and Rosenfeld. 3,120,989.
- Burne, Martin J., and A. C. McAdams. Display unit. 3,126,844, 3-31-64, Cl. 108-111.
- Burnel, Philippe. Circular loom. 3,128,795, 4-14-64, Cl. 139-13.
- Burnell, Maurice R., R. A. Foster, and W. S. Gallaway, to Beckman Instruments, Inc. Gas chromatography with means to flow ionization particles into the ionization chamber. 3,134,898, 5-26-64, Cl. 250-43.5.
- Burnett, Arden L. Method of dry-docking a ship and dry dock therefor. 3,133,420, 5-19-64, Cl. 61-64.
- Burnett, Arden L. Dry dock lock. 3,133,518, 5-19-64, Cl. 114-47.
- Burnett, David W., R. L. Kilgore, and W. A. Hardcastle, Jr., to National Gypsum Co. Insulation batt packaging. 3,117,513, 1-14-64, Cl. 100-215.
- Burnett, Edward N., to Gerber Products Co. Combined shipping container and organizer for frozen food packages. 3,127,991, 4-7-64, Cl. 206-56.
- Burnett, Edward N., to Gerber Products Co. Disposable bib. 3,146,464, 9-1-64, Cl. 2-49.
- Burnett, Elmer B., to Ingersoll-Rand Co. Lubrication for pneumatic tools. 3,119,456, 1-28-64, Cl. 173-93.
- Burnett, Elmer B., to Ingersoll-Rand Co. Directional and flow rate control valve. 3,123,100, 3-3-64, Cl. 137-625.17.
- Burnett, George E. Combination opener and spout for a paper carton. 3,160,322, 12-8-64, Cl. 222-88.
- Burnett, James H., to General Signal Corp. Smooth control of polyphase induction motors. 3,129,368, 4-14-64, Cl. 318-227.
- Burnett, Richard T., to The Bendix Corp. Auxiliary parking brake with automatic adjuster. 3,133,613, 5-19-64, Cl. 188-72.
- Burnett, Richard T., to The Bendix Corp. Automatic adjuster. 3,145,809, 8-25-64, Cl. 188-196.
- Burnett, Richard T., to The Bendix Corp. Lever actuated and anchored brake. 3,162,273, 12-22-64, Cl. 188-78.
- Burnett, Richard T., and J. L. Mossey, to The Bendix Corp. Combination automatic adjuster and deflection absorbing mechanism. 3,122,222, 2-25-64, Cl. 188-196.
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- Burnette, Richard A.: See—
- Brock, John D. 3,156,426.
- Burnette, Robert W. Emergency escape. 3,120,032, 2-4-64, Cl. 20-16.
- Burney, Jorge: See—
- August, George S. 3,122,365.
- Burnham, Benjamin K., to Thayer, Inc. Infant's walker and bouncer. 3,145,999, 8-25-64, Cl. 280-36.
- Burnham, Charles E. Window well cover. 3,128,508, 4-14-64, Cl. 20-1.
- Burnham, Crebert. Single lever remote control for outboard motors. 3,130,598, 4-28-64, Cl. 74-472.
- Burnham, John. Electrolytic capacitors. 3,120,695, 2-11-64, Cl. 29-25.31.
- Burnham, John B., Jr., and J. G. Darrah, to General Motors Corp. Nuclear reactor fuel element and process for making same. 3,129,141, 4-14-64, Cl. 176-69.
- Burnham, Reginald P.: See—
- Shepherd, George R., and Burnham. 3,149,496.
- Shepherd, George R., Burnham, and Robinson. 3,154,648.
- Burnham, Ted. Nut harvester. 3,131,526, 5-5-64, Cl. 56-328.
- Burnham, Wilbur H., Jr., and E. G. Hart. Charcoal grill holders. 3,127,888, 4-7-64, Cl. 126-25.
- Burning, Bernard L. Paint implement cleaning device. 3,116,745, 1-7-64, Cl. 134-158.
- Burns, Arthur G., to General Precision, Inc. Microwave modulator. 3,159,798, 12-1-64, Cl. 331-42.
- Burns, Arthur H., Jr., to Olin Mathieson Chemical Corp. Expanding point bullet. 3,157,137, 11-17-64, Cl. 102-91.
- Burns, Arthur H., Jr., and C. M. Schreiber, to Olin Mathieson Chemical Corp. Expanding bullet. 3,143,966, 8-11-64, Cl. 102-91.
- Burns, Bruce, and H. Spitz. Garment hanger. 3,140,024, 7-7-64, Cl. 223-93.
- Burns, David H., to Telautograph Corp. Telescriber stylus arrangement. 3,133,151, 5-12-64, Cl. 178-18.
- Burns, Erwin. Liner hanger. 3,152,643, 10-13-64, Cl. 166-124.
- Burns, Erwin. Port collar. 3,152,646, 10-13-64, Cl. 166-224.
- Burns, Herbert R., Jr., to International Business Machines Corp. Non-coincidence magnetic gate. 3,124,700, 3-10-64, Cl. 307-88.
- Burns, James A.: See—
- Harbison, Dixon T., and Burns. 3,126,829.
- Burns, James O., and S. L. Lloyd-Hughes, to Ormston Burns Ltd. Neck for stringed instruments. 3,159,072, 12-1-64, Cl. 84-293.
- Burns, Jerome G.: See—
- Hill, Randolph F., and Burns. 3,141,076.
- Burns, John H., to The National Cash Register Co. Tape handling apparatus. 3,157,867, 11-17-64, Cl. 340-174.1.
- Burns, Joseph R., and J. J. Amodeo, to Radio Corp. of America. Shift register including bistable circuit for static storage and tunnel diode monostable circuit for delay. 3,121,176, 2-11-64, Cl. 307-88.5.
- Burns, Joseph R., C. W. Campbell, and S. Nowka, to Bell Aerospace Corp. Heat bonding apparatus. 3,151,591, 10-6-64, Cl. 113-59.
- Burns, Kay N., to Jersey Production Research Co. Selsmic corrections. 3,134,958, 5-26-64, Cl. 340-15.5.
- Burns, Kay N., to Jersey Production Research Co. Analog device for least squares fitting. 3,154,678, 10-27-64, Cl. 235-180.
- Burns, Lawrence C., and E. M. Krakauer: said Burns assor. to said Krakauer. Meat package. 3,117,875, 1-14-64, Cl. 99-174.
- Burns, Leo C., L. M. Davis, C. N. De Bruin, and L. H. Saylor, to Sealed Power Corp. Piston ring assembly. 3,124,364, 3-10-64, Cl. 277-76.
- Burns, Ormston, Ltd.: See—
- Burns, James O., and Lloyd-Hughes. 3,159,072.
- Burns, Raymond L. Loop-antenna-switching mechanism. 3,118,143, 1-14-64, Cl. 343-120.
- Burns, Robert V.: See—
- Cleary, Robert T., Burns, and Huckstadt. 3,141,068.
- Burns, Robert W. Positioning and holding device. 3,159,394, 12-1-64, Cl. 269-74.
- Burns and Roe, Inc.: See—
- Chapellier, Robert A. 3,144,139.
- Roe, Ralph C. 3,131,865.
- Burns, Simon P., and H. G. Muhlbauer. Piperazine salt manufacture. 3,136,767, 6-9-64, Cl. 260-268.
- Burns, Stanley M.: See—
- Bushway, George H. 3,123,500.
- Burns, Sylvester F., to General Motors Corp. Door latch with integral bolt and ratchet. 3,121,581, 2-18-64, Cl. 292-280.
- Burns, Thagrus A. Packaging device. 3,154,899, 11-3-64, Cl. 53-190.
- Burns, Theodore G.: See—
- Eckholm, Steven T., and Burns. 3,137,972.
- Burns, William E. Sound generating device for code practice. 3,125,752, 3-17-64, Cl. 340-388.
- Burnside, Gilbert L.: See—
- Beck, Jerry G., Brewer, Burnside, Mistele, and Smarsh. 3,122,320.
- Burnside, Harvey E. W., to Esco Research and Engineering Co. Iron ore magnetic roast process. 3,125,436, 3-17-64, Cl. 75-1.
- Burny, Wilhelmine F. E. M. L. Shoe-protecting devices for drivers of motor or other vehicles. 3,118,237, 1-21-64, Cl. 36-72.
- Buron, Jean A.: See—
- Levy, Pierre B., and Buron. 3,151,327.
- Buros, Melvin S., to Diebold, Inc. Bank service mechanism for automobiles. 3,152,662, 10-13-64, Cl. 186-1.
- Burpitt, Robert D.: See—
- Brannock, Kent C., and Burpitt. 3,135,740.
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- Burr, Harvey, J. J. Leone, and J. L. Olyha, to Anaconda Wire and Cable Co. Marking apparatus. 3,143,959, 8-11-64, Cl. 101-6.
- Burr, Robert P., to Circuit Research Co. Position sensing apparatus. 3,131,339, 4-28-64, Cl. 318-6.
- Burr, Warren W.: See—
- Endres, Herbert A., and Burr. 3,127,367.
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- Burrell, Alfred A. Sprocket wheel. 3,162,057, 12-22-64, Cl. 74-243.
- Burrell Belting Co.: See—
- Linn, James A., and Smith. 3,156,147.
- Burrell Corp.: See—
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- Burrell, Elsmore. Locking device for open post. 3,120,116, 2-4-64, Cl. 70-232.
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- Burrell, William E. Directionally selective lubricating system. 3,144,915, 8-18-64, Cl. 184-3.
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- Randell, Geoffrey E. C., Burridge, and Lambert. 3,124,736.
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- Burris, Robert E. Method of and apparatus for teaching mathematics. 3,129,518, 4-21-64, Cl. 35-31.
- Burris, William J., J. J. Codicchini, R. E. Hayford, and C. L. Huber, to Xerox Corp. Xerographic reproducing apparatus. 3,131,617, 5-5-64, Cl. 95-1.7.
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- Burton, Robert W., to General Motors Corp. Drive line support means. 3,161,253, 12-15-64, Cl. 180-70.
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- Busch, Richard D., to SKF Industries, Inc. Method and apparatus for assembling rolling bearings. 3,148,437, 9-15-64, Cl. 29-148.4.
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- Bush, John H., C. W. Fifield, J. L. Dwyer, and D. B. Porter, to Millipore Filter Corp. Combination filter and flow divider for gas and liquid. 3,149,758, 9-22-64, Cl. 222-189.
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- Bush, Rex D., to Cutler-Hammer, Inc. Emergency release switch. 3,117,206, 1-7-64, Cl. 200-157.
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- Bush, Vannevar, P. A. Scherer, and R. X. Meyer, to P. A. Scherer. Constant lift system for craft. 3,141,437, 7-21-64, Cl. 114-66.54.
- Bushey, Thomas N., to Leeson Corp. Feed roll unit for textile machines. 3,153,312, 10-20-64, Cl. 57-82.
- Bushl, Michael. Method of making ball bearings. 3,137,920, 6-23-64, Cl. 29-148.4.
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- Bushway, George H., by S. M. Burns, executor of said G. H. Bushway, deceased, to Shu-Conditioner Inc. Self-adjusting box toe blank conditioning machine. 3,123,500, 3-3-64, Cl. 118-426.
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- Busk, Charles W. Feeding and die cutting machine. 3,146,651, 9-1-64, Cl. 83-262.
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- Buslik, Walter S., to International Business Machines Corp. Wear resistant pressure pad. 3,157,863, 11-17-64, Cl. 340-174.1.
- Buss, Benjamin A., to Ametek, Inc. Laundry machines. 3,129,598, 4-21-64, Cl. 74-230.17.
- Buss, Benjamin A., to Ametek, Inc. Timer control for a washing machine ingredient dispenser. 3,133,673, 5-19-64, Cl. 222-70.
- Buss, Benjamin A., to Ametek, Inc. Sheet feeding and spreading apparatus. 3,153,291, 10-20-64, Cl. 38-143.
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- Bussard, Adrien, to W. C. Herneus, G.m.b.H. Method and apparatus for sintering premolded objects. 3,121,630, 2-18-64, Cl. 75-200.
- Busse, Clarence E. Cutter for dispenser of aluminum foil and like material. 3,142,217, 7-28-64, Cl. 83-375.
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- Bussell, George W., to Rinsheed-Mason Co. Thermosetting mixture of a styrene-acrylic acid-epoxide-containing compound and an amine-aldehyde resin. 3,156,740, 11-10-64, Cl. 260-45.2.
- Bussert, Jack F., and F. K. Kawahara, to Standard Oil Co. Motor fuel. 3,129,074, 4-14-64, Cl. 44-69.
- Bussey, Atlee H., B. W. Morris, and H. W. Ray, to Aerojet-General Corp. Method of joining elongated objects. 3,160,949, 12-15-64, Cl. 29-421.
- Bussey, Gene R., to Consolidated Controls Corp. Multichannel data acquisition and transmission system. 3,125,750, Cl. 340-183.
- Bussiere, Rosaire. Stone picking machine. 3,151,682, 10-6-64, Cl. 171-63.
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- Bussink, Jan, to American Enka Corp. Synthetic linear polyamides from 2,5-dimethyl-p-phenylene diacetic acid. 3,126,362, 3-24-64, Cl. 260-78.
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- Bustamante, Cesar. Novelty fabric loom. 3,156,265, 11-10-64, Cl. 139-11.
- Butala, John, Jr. Gauging device and method for machining operations. 3,120,062, 2-4-64, Cl. 33-169.
- Butcher, Richard E., to The Dow Chemical Co. Fragile lined pipe coupling and gasket therefor. 3,151,869, 10-6-64, Cl. 277-209.
- Butcher, Walter W.: See—
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- Butcher, Walter W., to Standard Oil Co. Ammonium nitrate gas generating composition with combustion catalyst. 3,148,096, 9-8-64, Cl. 149-19.
- Buten, Norman: See—
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- Buter, Adrian E., to Allied Chemical Corp. Granular urea-form fertilizer. 3,129,091, 4-14-64, Cl. 71-28.
- Buteux, Richard H. B., to Imperial Chemical Industries Ltd. Bulking means. 3,137,107, 6-16-64, Cl. 51-193.
- Butikofer, Robert E., to Standard Oil Co. Continuous method for preparing a nitrogen containing fertilizer. 3,144,321, 8-17-64, Cl. 71-59.
- Butka, John: See—
Nelson, Andrew J., and Butka. 3,147,499.
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- Butke, Charles J.: See—
Aler, Mary E., Butke, and Stopper. 3,117,012.
- Butkin Tool and Mfg. Corp.: See—
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- Butler Bin Co.: See—
Huntington, Chester D. 3,129,928.
- Butler, Byron C.: See—
Yellott, John L., and Butler. 3,127,115.
- Butler Charles R. Cooling system for internal combustion engines. 3,132,634, 5-12-64, Cl. 123-41.54.
- Butler, Charles W.: See—
Parker, Warren H. 3,143,809.
- Butler, Clarence A., to The Lindsay Wire Weaving Co. Porous fabric or structure and the method of making the same. 3,158,984, 12-1-64, Cl. 57-144.
- Butler, Colin G.: See—
Callow, Robert K., Butler, and Johnston. 3,162,659.
- Butler, David F.: See—
Into, Henry A., and Butler. 3,127,812.
- Butler, De Forest D.: See—
Rys, Tadeusz J., Butler, and Stanback. 3,133,781.
- Butler, De Forest D., to Square D Co. Meter socket contact jaw fastening means. 3,137,807, 6-16-64, Cl. 317-111.
- Butler, Edward A.: See—
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- Butler, Edward J., and E. A., to Electronics Research Corp. Automobile safety belt with ignition interlock. 3,154,167, 10-27-64, Cl. 180-82.
- Butler, Edward M., and M. M. Fein, to Thiokol Chemical Corp. Stabilized organo-boron fuels. 3,130,019, 4-21-64, Cl. 44-78.
- Butler, Eugene W., and J. Williamson, Jr. Complete oxidation sewage treatment plant. 3,118,835, 1-21-64, Cl. 210-221.
- Butler, Florence P.: See—
Weisberg, Mark, and Butler. 3,163,524.
- Butler, George. Viner and separator machines. 3,156,363, 11-10-64, Cl. 209-112.
- Butler, George L., and M. R. Emerson, to United Aircraft Corp. Workpiece inspection system. 3,135,055, 6-2-64, Cl. 33-174.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Spot type disc brakes for vehicles. 3,124,217, 3-10-64, Cl. 188-73.
- Butler, Jack B. Wheel alignment testing apparatus. 3,124,881, 3-17-64, Cl. 33-168.
- Butler, Jacob C., and W. Getz, to The William Getz Corp. Apparatus for the production of crowns. 3,137,894, 6-23-64, Cl. 138-5.7.
- Butler, Jesse L., to Sanders Associates, Inc. Strip line to ridged waveguide transition having a probe projecting into waveguide through ridge. 3,146,410, 8-25-64, Cl. 333-21.
- Butler, Jesse L., to Sanders Associates, Inc. Phase shifter. 3,146,413, 8-25-64, Cl. 333-31.
- Butler, John M.: See—
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Hedrick, Ross M., Mottus, and Butler. 3,120,508.
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- Butler, John M., L. A. Miller, and G. L. Wesp, to Monsanto Co. Polymeric sulfonamides. 3,153,020, 10-13-64, Cl. 260-79.3.
- Butler, John M., and L. A. Miller, to Monsanto Co. Method of inhibiting growth of fungi and bacteria with ester of acetylenic acid and polyol. 3,156,612, 11-10-64, Cl. 167-22.
- Butler, Joseph: See—
Stewart, William R., Stewart, and Butler. 3,123,866.
- Butler, Keith H., J. M. Harris, and H. H. Homer, to Sylvania Electric Products, Inc. Electroluminescent device. 3,161,797, 12-15-64, Cl. 313-108.
- Butler, Leonard F., to National Research Development Corp. Mechanism for obtaining an adjustable relation between the rotation and straight-line translation of a rolling body. 3,131,567, 5-5-64, Cl. 74-1.
- Butler Mfg. Co.: See—
Anderson, Arthur I., and Konleek. 3,152,842.
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- Butler, Roger M.: See—
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- Tiedje, John L., Richard, and Butler. 3,161,581.
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- Butler, Sammy A., to International Business Machines Corp. Shift registers. 3,160,861, 12-8-64, Cl. 340-174.
- Butler, Stanley C., and D. L. L. Marsh. Rocket toys. 3,121,292, 2-18-64, Cl. 46-74.
- Butler, Thomas A., to The Lubrizol Corp. Lubricant composition. 3,146,201, 8-25-64, Cl. 252-32.5.
- Butler, Thomas A., to The Lubrizol Corp. Oxidation-resistant lubricating composition. 3,151,075, 9-29-64, Cl. 252-32.7.
- Butler, Thomas C., to The Black and Decker Mfg. Co. Trigger switch with lock for tool or appliance. 3,132,227, 5-5-64, Cl. 200-157.
- Butler, William S., P. J. Fontaine, and R. F. Lo Presti, to Goodman Mfg. Co. Stack conveyor and method of conveying. 3,125,209, 3-17-64, Cl. 198-36.
- Butler, William S., and P. J. Fontaine, to Goodman Mfg. Co. Shaker conveyor trough line. 3,133,628, 5-19-64, Cl. 198-220.
- Butt, Alan G., and L. J. Dedo, to The Trane Co. Heat exchanger. 3,135,321, 6-2-64, Cl. 165-154.
- Butt, Frederick J., to The Dow Chemical Co. Method of packaging viscous materials. 3,157,519, 11-17-64, Cl. 99-171.
- Butt, Sheldon H., to Olin Mathieson Chemical Corp. Method of removing atmosphere and then pressure welding. 3,150,445, 9-29-64, Cl. 29-471.5.
- Butterfield, James F., to J. F. Butterfield and E. Levitt. Apparatus for producing forms and colors in motion. 3,122,966, 3-3-64, Cl. 88-27.
- Butterfield, Walter L.: See—
Cash, Carl G., Holberg, and Butterfield. 3,160,512.

- Butterworth, Archibald J., to Sidler Ltd. Device for moving semi-trailers sidewise. 3,120,398, 2-4-64, Cl. 280-423.
- Butterworth, Archibald J. Control devices for hydraulically actuated jacking or parking mechanism. 3,128,839, 4-14-64, Cl. 180-1.
- Butterworth, Richard, and J. A. Parker, to Armstrong Cork Co. Linear polycarbonates from bis (phenol) alkanolic acid esters. 3,132,118, 5-5-64, Cl. 260-47.
- Butterworth, Richard, and J. A. Parker, to Armstrong Cork Co. Nitrile-containing polycarbonate. 3,157,617, 11-17-64, Cl. 260-47.
- Butterworth, Robert: See—
- Anderson, David F., Butterworth, and Taylor. 3,158,063.
- Stanton, Arthur J., Anderson, Taylor, Butterworth, and Shawen. 3,144,810.
- Butterworth, Robert, to United States of America, Navy. Round-to-barrel sealing mechanism. 3,141,377, 7-21-64, Cl. 89-17.
- Buttery, Kenneth T.: See—
- Kirkwood, Lewis E., Bull, Cornell, and Buttery. 3,129,869.
- Buttery, Kenneth T., and D. D. Corbell, to KVP Sutherland Paper Co. Paper dispensing carton. 3,128,025, 4-7-64, Cl. 225-48.
- Büttner, Arthur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Apparatus for improving sheet delivery on automatic platen machines. 3,144,825, 8-18-64, Cl. 101-297.
- Buttner, Horace J., to Textron Inc. Marine propulsion system. 3,155,071, 11-3-64, Cl. 115-16.
- Buttner-Werke Aktiengesellschaft: See—
- Feld, Erich, Hensel, and Roos. 3,133,798.
- Buttolph, Doyle D., to Phillips Petroleum Co. Film positioning apparatus. 3,140,573, 7-14-64, Cl. 53-51.
- Buttolph, Doyle D., and E. C. Beason, Jr., to Phillips Petroleum Co. Heat sealing thermoplastic packages. 3,131,521, 5-5-64, Cl. 53-180.
- Buttrick, George W., and N. R. Eldred, to Union Carbide Corp. Paper products containing a sulfonated 2-phenoxyethyl acrylate polymer. 3,159,520, 12-1-64, Cl. 162-168.
- Butts, Philip G., and C. R. Fingerhood, to Olin Mathieson Chemical Corp. Combustible explosive charges. 3,123,507, 3-3-64, Cl. 149-19.
- Butts, Richard R. Anti-colic nursing bottle construction. 3,138,273, 6-23-64, Cl. 215-11.
- Butye, Richard J.: See—
- Conner, John W. 3,154,865.
- Buyalos, Edward J.: See—
- Gaskins, Ernest, and Buyalos. 3,133,120.
- Buyer, Edward, R. H. Edmonds, and J. R. Karp, to United States of America, Navy. Radar signal density analysis circuit. 3,160,883, 12-8-64, Cl. 343-18.
- Buys, James F. Bottle holder. 3,122,390, 2-25-64, Cl. 294-312.
- Buyseh, Heinrich, to H. Krantz, Sohne. Web overfeeding device for tenting and drying machines. 3,147,532, 9-8-64, Cl. 26-57.
- Buyze, Edwin K., to The Budd Co. Wedge operated, self energizing, fluid cooled disk brake. 3,124,216, 3-10-64, Cl. 188-72.
- Buzas, André. Carbamate derivative of 5-hydroxyalkylmalonate ureas. 3,150,137, 9-22-64, Cl. 260-256.4.
- Buzas, August J.: See—
- Schenck, Remsen T., and Buzas. 3,151,123.
- Buzash, Steven J.: See—
- Avila, Arthur J., Buzash, and Thomas. 3,128,649.
- Buzawa, Michael J., to Bausch & Lomb Inc. Microscope objective. 3,118,964, 1-21-64, Cl. 88-57.
- Buzawa, Michael J., to Bausch & Lomb Inc. Symmetrical Gauss type objective. 3,136,840, 6-9-64, Cl. 88-57.
- Buzawa, Michael J., to Bausch & Lomb Inc. Projection objective for photo mechanisms. 3,145,255, 8-18-64, Cl. 88-57.
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- Cottrell, Robert B., Jr., Buzby, and Beggs. 3,159,291.
- Buzzard, William S., to Fischer & Porter Co. Consistency measuring and control method and apparatus. 3,163,172, 12-29-64, Cl. 137-4.
- Buzzelli, Frank D. Hair curler. 3,139,889, 7-7-64, Cl. 132-39.
- Buzzini, Arthur P.: See—
- Wilson, John H., and Buzzini. 3,122,211.
- Ryal, John M., to Libbey-Owens-Ford Glass Co. Grinding runner. 3,142,946, 8-4-64, Cl. 51-209.
- Byam, Erwin B., to Textron Inc. Rod feed and cut-off control. 3,132,358, 5-12-64, Cl. 10-25.
- Byam, Erwin B., to Textron Inc. Transfer mechanism with means to operate fingers independently of movement of transfer head. 3,154,801, 11-3-64, Cl. 10-12.
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- Byars, Garner B., Sr., and L. Johnson, to Auto Fire Corp. Charcoal starter. 3,116,704, 1-7-64, Cl. 110-1.
- Byassee, Guy E., to D. F. Chittwood, Sr. Coat hanger receptacles. 3,145,835, 8-25-64, Cl. 201-1.
- Byatt, Dennis W. G., to The Marconi Co. Ltd. Radio direction finders. 3,156,916, 11-10-64, Cl. 343-117.
- Ryberg, Jonas J. Metering improvement for feed mixers. 3,143,336, 8-4-64, Cl. 259-97.
- Byer, Ellis M., and A. A. Lang. Production of citrus fruit juice. 3,117,877, 1-14-64, Cl. 99-192.
- Byer, Ellis M., and A. A. Lang. Production of flavor-enhanced grape and tomato concentrates. 3,118,775, 1-21-64, Cl. 99-205.
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- Byerly, Coy M., and E. J. Rhoad, to Hughes Aircraft Co. Space stabilization computer. 3,126,538, 3-24-64, Cl. 343-7.
- Byerrum, Richard U.: See—
- Lucas, Eugene H., and Byerrum. 3,118,811.
- Byers, Donald J. Equipment for underwater photography and related uses. 3,162,107, 12-22-64, Cl. 95-11.
- Byers, James O., Jr., to The Bendix Corp. Balance ring for pulsating fluid machinery. 3,122,104, 2-25-64, Cl. 103-161.
- Byington, Roy E., to United States of America, Army. Moving target indicator canceller. 3,153,786, 10-20-64, Cl. 343-77.
- Byl, Theodore R., to Code-A-Phone Electronics, Inc. Rotary programming switch. 3,123,682, 3-3-64, Cl. 200-38.
- Byland, Hans-Kudolf, and H. Ischer, to Sandoz Ltd. Reactive dyestuffs. 3,133,911, 5-19-64, Cl. 260-154.
- Byland, Henry L., to General Binding Corp. Automatic binding machine. 3,124,818, 3-17-64, Cl. 11-1.
- Bylander, Ernest G., and W. R. Runyan, to Texas Instruments Inc. Semiconductor device and method of manufacture. 3,138,495, 6-23-64, Cl. 148-187.
- Byler, William H.: See—
- Ham, George E., Byler, Cromwell, and Mancl. 3,127,387.
- Byler, William H., A. K. Schwerin, deceased (J. Schwerin, administratrix), and F. R. Hays, said Byler and said Hays assigns, to U.S. Radium Corp. Color radiographic film. 3,121,232, 2-11-64, Cl. 96-68.
- Byles, Theodore A., to Motorola, Inc. Generator field winding regulation with direct thermistor control of the field winding control circuit. 3,152,298, 10-6-64, Cl. 322-73.
- Bylo, John J. Structure for loading and unloading cargo. 3,139,197, 6-30-64, Cl. 214-12.
- Byloff, Robert C., to The Garrett Corp. Method of controlling the flow of heat transfer fluid. 3,122,199, 2-25-64, Cl. 165-2.
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- Edge, Dewey S., Sr. 3,143,286.
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- Byrd, James D.: See—
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- Byrd, James T. Propeller with selectively variable pitch. 3,123,145, 3-3-64, Cl. 170-160.6.
- Byrd, James W., 50% to E. B. Medlock. Automatic poultry waterer. 3,138,140, 6-23-64, Cl. 119-80.
- Byrd, Joseph L., to Eastman Kodak Co. Photographic exposure meter. 3,117,490, 1-14-64, Cl. 88-24.
- Byrd, Wendell M., Jr.: See—
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- Urquhart, Thornton L. 3,151,858.
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- Byrne, George C., to Sylvania Electric Products Inc. Secure communication line. 3,135,951, 6-2-64, Cl. 340-276.
- Byrne, Joe L., and J. L. Dooley, to McCulloch Corp. Dynamic seal for air suspension vehicle. 3,159,228, 12-1-64, Cl. 180-7.
- Byrne, John F., to Minneapolis-Honeywell Regulator Co. Photographic composition. 3,123,474, 3-3-64, Cl. 96-108.
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- Bell, Raymond J., Byrne, and Schlueter. 3,151,923.
- Byrne, John J., and R. W. Cruger, to E. W. Bliss Co. Aircraft launching and arresting device. 3,142,458, 7-28-64, Cl. 244-63.
- Byrne, Joseph B.: See—
- Feay, Darrell C., Mackey, and Byrne. 3,121,706.
- Byrne, Joseph F., to Westinghouse Air Brake Co. Random access switching system. 3,117,303, 1-7-64, Cl. 340-147.
- Byrne, Joseph J., and S. F. Adler, to American Cyanamid Co. Gel oxide-aluminumhydride compositions. 3,146,209, 8-25-64, Cl. 252-188.
- Byrne, Mary B. Combined hat and camera support. 3,139,014, 6-30-64, Cl. 95-12.
- Byrne, Robert M., to Goodyear Aerospace Corp. Automatic radar display centering system. 3,155,870, 11-3-64, Cl. 315-18.
- Byrne, William H., and J. H. Sadler. Method and apparatus for generating combustible gas. 3,124,435, 3-10-64, Cl. 48-105.
- Byrnes, Dennis W. Feed means. 3,126,871, 3-31-64, Cl. 119-52.
- Byrnes, Dennis W. Manure remover. 3,134,358, 5-26-64, Cl. 119-22.
- Byrnes, Dennis W. Egg collecting and counting means. 3,134,359, 5-26-64, Cl. 119-48.
- Byrnes, Richard J., J. T. Pence, and B. O. Rae, to Cutler-Hammer, Inc. Code responsive systems. 3,152,681, 10-13-64, Cl. 198-38.
- Byrnes, Thomas E. Wheeled toy with wheel-actuated devices. 3,119,189, 1-28-64, Cl. 46-204.
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- Byron, Richard F., J. Danaczko, Jr., A. L. Dixon, and L. M. Welker, to Western Electric Co., Inc. Radiation decomposition of waste cyanide solutions. 3,147,213, 9-1-64, Cl. 210-1.
- Bystricky, Joseph C., F. G. Schwelsthal, and E. G. Stock, to Stewart-Warner Corp. Lubricating device. 3,156,320, 11-10-64, Cl. 184-29.
- Bywater, William, Ltd.: See—
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- O'Byrne, Brendan. 3,116,534.
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- Bywater, William G., and R. W. Price, to S. B. Penick and Co. Synergized insecticidal compositions. 3,134,712, 5-26-64, Cl. 167-30.
- C.A.V. Ltd.: See—
- Evans, Fraser M. 3,116,728.
- Evans, Fraser M. 3,124,305.
- Evans, Fraser M. 3,161,134.
- Evans, Fraser M., and Kemp. 3,142,973.
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- CBA Inc.: See—
- Fletcher, John W. 3,118,769.
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- Gieseler, Luther P. 3,124,753.
- C.I.T. Compagnie Industrielle des Telecommunications: See—
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- C.I.T. Corp.: See—
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- Hilde Nijland, Hendrik A. 3,143,612.
- CSF-Compagnie Generale de Telegraphie Sans Fil: See—
- Delphin, Pierre. 3,141,992.
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- CTS of Canada, Ltd.: See—
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- C & W Mfg. Corp.: See—
- Wexler, Sol. 3,118,208.
- Caballero, Esperanza. Infant's harness. 3,136,581, 6-9-64, Cl. 297-384.
- Cabaness, William R., Jr., to Jefferson Chemical Co. Inc. Method for preparing polyolefins of reduced ash content. 3,138,579, 6-23-64, Cl. 260-94.9.
- Cabaniss, Edward H., to United States of America, Navy. Breakaway circuit for radar tracking, autopilot operated aircraft. 3,137,463, 6-16-64, Cl. 244-77.
- Cabasso, Victor J., H. R. Cox, A. W. Moyer, and M. Rocca-Garcia, to American Cyanamid Co. Suckling rodent and chick embryo attenuated MEF-1 Polio virus and the production thereof. 3,125,489, 3-17-64, Cl. 167-78.
- Cabbage, John T.: See—
- Cox, Clyde M., and Cabbage. 3,119,445.
- Cabbage, John T., to Phillips Petroleum Co. Method of reducing sulfur content of residual products. 3,119,764, 1-28-64, Cl. 208-208.
- Cabbage, John T., to Phillips Petroleum Co. Catalytic hydrogenation of benzene. 3,146,187, 8-25-64, Cl. 208-57.
- Cabbage, John T., to Phillips Petroleum Co. Combined stripping and flashing operation. 3,160,582, 12-8-64, Cl. 208-361.
- Cabell, Douglas N., to Ronson Corp. Juice-extracting device. 3,159,193, 12-1-64, Cl. 146-3.
- Cabin Crafts, Inc.: See—
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- Bryant, Clifford A., Hackney, and Payne. 3,160,125.
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- Hackney, Robert F. 3,132,612.
- Cable Belt Ltd.: See—
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- Cable, Elvin K., to Leduc, Inc. Diode rectifier with over-voltage protection. 3,118,102, 1-14-64, Cl. 321-11.
- Cabot Corp.: See—
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- Cabral Motors, Inc.: See—
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- Caddock, Richard E.: See—
- Harrison, Wilbur T., Mathison, Caddock, and Bourns. Re. 25,674.
- Caddock, Richard E., and M. E. Bourns; said Caddock assignor to Bourns, Inc. Potentiometers. 3,124,779, 3-10-64, Cl. 338-180.
- Caddock, Richard E., and M. E. Bourns, to Bourns, Inc. Adjustment-indicating variable resistor. 3,134,086, 5-19-64, Cl. 338-196.
- Caddoo, William H., to Continental Can Co., Inc. Book cover and machine and method for making same. 3,145,033, 8-18-64, Cl. 281-29.
- Cade, Phillip J., to Electronics Corp. of America. Electrical connector apparatus. 3,104,225, 7-7-64, Cl. 317-101.
- Cadillac Gage Co.: See—
- Bidlack, Jerald D. 3,142,230.
- Brandstadter, Jack M. 3,141,388.
- Lorimer, John D., Schuch, and Kucharski. 3,120,755.
- Cadillac Products, Inc.: See—
- Williams, Robert J. 3,127,084.
- Cadion, Jean, to Andre Citroen, Societe Anonyme. Swinging arm mounting of independent wheel suspension system. 3,134,605, 5-26-64, Cl. 280-96.1.
- Cadion, Jean, to Andre Citroen, Societe Anonyme. Regulator device for hydraulic motors. 3,138,067, 6-23-64, Cl. 91-175.
- Cadion, Jean, to Andre Citroen Societe Anonyme. Drive connection for automotive vehicle. 3,152,675, 10-13-64, Cl. 192-3.2.
- Cadion, Jean, to Andre Citroen Societe Anonyme. Method of and device for the regulation of hydraulic motors. 3,156,159, 11-10-64, Cl. 91-175.
- Cadion, Jean, to Societe Anonyme Andre Citroen. Automatic regulating devices for hydraulic barrel-type pumps or motors. 3,157,130, 11-17-64, Cl. 103-162.
- Cadman, Corlis D., to The Parker Pen Co. Self aligning spinning tool. 3,132,615, 5-12-64, Cl. 113-32.
- Cadmus, Eugene L., and L. Lipschitz, to Wood Ridge Chemical Corp. Process for the production of the red oxide of mercury. 3,149,917, 9-22-64, Cl. 23-183.
- Cadmus, Lamont A.: See—
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- Cadmus, Lamont A., to Willys Motors, Inc. Pressurized wheel and brake assembly. 3,144,099, 8-11-64, Cl. 188-2.
- Cadmus, Lamont A., and A. C. Samplero, to Willys Motors, Inc. Driven swinging axle assemblies with steerable wheels. 3,155,186, 11-3-64, Cl. 180-43.
- Cadorette, George, to Draper Corp. Replenishing mechanism for looms. 3,153,431, 10-20-64, Cl. 139-257.
- Cadorette, John W.: See—
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- Cadotte, John E., to Wood Conversion Co. Production of sag-resistant mineral fiberboard. 3,146,156, 8-25-64, Cl. 162-175.
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- Cadwallader, Edgar A., to United States of America, Navy. Flame composition. 3,152,935, 10-13-64, Cl. 149-19.
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- Cadwell, Gilbert C., to Rohr Corp. High energy tube expander. 3,127,923, 4-7-64, Cl. 133-79.
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- Cady, Charles E.: See—
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- Cage, Albert G., Jr. Repositionable connector plug with position eliminator means. 3,139,492, 6-30-64, Cl. 200-11.
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- Caggiano, Vincent G., Jr. Cultivator. 3,117,632, 1-14-64, Cl. 172-5.
- Cagin, Raymond, P. Chemin, J. Millot, and P. Mulot, to Commissariat a l'Energie Atomique. Reactor fuel handling hood. 3,143,226, 8-4-64, Cl. 214-18.
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- Cain, Francis E. Car top boat loader. 3,141,565, 7-21-64, Cl. 214-450.
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- Caldwell, Donald B., J. N. Brown, and E. G. Lavigne, to Minnesota Mining and Mfg. Co. Vibration damping structures. 3,160,549, 12-8-64, Cl. 161-161.
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- Caldwell, John, to The Engle Electric Co. Ltd. Steam power plants. 3,150,267, 9-22-64, Cl. 290-2.
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- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Linear polyesters of 1,4-cyclohexanedicarboxylic acid and aromatic diols. 3,143,526, 8-4-64, Cl. 260-47.
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- Caldwell, Marion J., to Moorman Mfg. Co. Animal feeds containing aspirin. 3,147,120, 9-1-64, Cl. 99-2.

- Caldwell, Richard L., to Socony Mobil Oil Co., Inc. Radioactive fluid flow measuring apparatus with means for injecting a marker material between the source and detector. 3,156,818, 11-10-64, Cl. 250-43.5.
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Cargill, Norman A., and T. D. Reader, to Sperry Rand Corp. Electro-sonic fluid amplifier. 3,144,037, 8-11-64, Cl. 137-608.

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Carkhuft, Edwin D., and D. J. Myers, to Richardson-Merrell Inc. Locking box top. 3,146,935, 9-1-64, Cl. 220-45.

Carlin, Clarence A., A. T. Greenside, Jr., and R. D. Lambert, to C. C. Sargent's Sons Corp. Device for intimately mixing fluids and discharging the mixed fluids as a jet. 3,130,914, 4-28-64, Cl. 239-425.

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Carleton, Paul D. Internal combustion engine-heat pump system. 3,135,318, 6-2-64, Cl. 165-29.

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Carlevato, Harold G., to E. I. du Pont de Nemours, and Co. Blasting composition. 3,129,126, 4-14-64, Cl. 149-29.

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Carlson, Chester F., to Xerox Corp. Xerographic fusing and drying apparatus. 3,140,160, 7-7-64, Cl. 34-155.

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Carlson, Gilbert F., and R. M. Harmon, Jr., to International Telephone and Telegraph Corp. Pressurized medium temperature hot water system. 3,184,543, 5-26-64, Cl. 237-63.

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- Carlson, Harold A., to ACF Industries, Inc. Engine idle speed control. 3,146,844, 9-1-64, Cl. 180-77.
- Carlson, Harold A., to ACF Industries, Inc. Carburetor idle control. 3,146,845, 9-1-64, Cl. 180-77.
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- Carlson, Harold A., to ACF Industries, Inc. Carburetor. 3,160,150, 12-8-64, Cl. 123-119.
- Carlson, Harold A., E. A. Johnson, and E. R. Frey, to ACF Industries, Inc. Carburetor. 3,160,682, 12-8-64, Cl. 261-35.
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- Carlson, Harold G., to General Electric Co. Means for supplying full wave rectified current to the field of an A.C. generator. 3,161,817, 12-15-64, Cl. 322-28.
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- Carlson, John A., to Teletype Corp. Mounting for teletype printer. 3,146,978, 9-1-64, Cl. 248-15.
- Carlson, John W., to Speed-O-Print Business Machines Corp. Photocopying machines. 3,132,857, 5-12-64, Cl. 271-51.
- Carlson, John W., to Speed-O-Print Business Machines Corp. Attachments for printing devices. 3,149,564, 9-22-64, Cl. 101-413.
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- Carlson, Richard A., to General Motors Corp. Transistor voltage regulator for a generator with means for preventing discharge of battery through field winding or output winding. 3,136,940, 8-9-64, Cl. 322-73.
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- Carlson, Robert J., to The Emerson Electric Mfg. Co. Speed controller for induction motor. 3,125,711, 3-17-64, Cl. 318-11.
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- Carlston, Hamilton S. Directional control apparatus for a movable closure member. 3,124,380, 3-10-64, Cl. 292-163.
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- Carnier, James F. Reversible discharge flow and variable displacement pump. 3,143,079, 8-4-64, Cl. 103-120.
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- Carpenter, Jack T. Cotton wad breaker. 3,159,880, 12-8-64, Cl. 19-82.
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- Ward, Chester E., and Carpenter. 3,161,225.
- Carpenter, Victor W., and J. M. Jackson, to Armco Steel Corp. Non-oriented silicon-iron sheet stock and process of making it. 3,130,091, 4-21-64, Cl. 148-111.
- Carpenter, Victor W., J. M. Jackson, and R. W. Squibb, to Armco Steel Corp. Production of silicon iron sheet stock. 3,152,021, 10-6-64, Cl. 148-111.
- Carpenter, Virgil R., to International Vending Machines, Inc. Cup dispensing mechanism. 3,119,519, 1-28-64, Cl. 221-113.
- Carpenter, Virgil R., to International Vending Machines, Inc. Dispensing mechanism. 3,136,450, 6-9-64, Cl. 221-114.
- Carpenter, Wayne R., to United States of America, Navy. Process for synthesis of various tetrazoles. 3,138,609, 6-23-64, Cl. 260-308.
- Carpenter, William G., to American Cyanamid Co. Homopolymerization of acetylene with ferric chloride as catalyst. 3,131,172, 4-28-64, Cl. 260-94.1.
- Carpenter, William P., to The Superior Electric Co. Lighting device. 3,147,928, 9-8-64, Cl. 240-123.
- Carpezz, Leo J. Height adjustable dolly. 3,137,512, 6-16-64, Cl. 280-35.
- Carpigiani, Paoletto, to APAW, S.A. Multi-piston dosing and dispensing cock. 3,149,756, 9-22-64, Cl. 222-137.
- Carpinella, Michael J., to Scovill Mfg. Co. Pillers for attaching snap fasteners. 3,145,388, 8-25-64, Cl. 1-317.
- Carr, Barney J., to Kaman Aircraft Corp. Pulsed neutron generator with high vacuum and control grid between ion source and target. 3,141,975, 7-21-64, Cl. 250-84.5.
- Carr, Charles E. Method for preventing channelling in hydraulic fracturing of oil wells. 3,161,235, 12-15-64, Cl. 160-29.
- Carr, Cleatus A., and E. L. Mardock. Socket wrench. 3,126,774, 3-31-64, Cl. 81-125.
- Carr, Clifford H. Compressor valve. 3,148,697, 9-15-64, Cl. 137-327.
- Carr, Cornelius F.: See—
- Carr, Rose C., and C. F. 3,147,052.
- Carr, Curtis E., to The Perkin-Elmer Corp. Data processing card punching. 3,156,148, 11-10-64, Cl. 83-34.
- Carr, Donald E., to Phillips Petroleum Co. Solid polyolefin containing an aryl substituted polyolefin and having improved clarity. 3,118,857, 1-21-64, Cl. 260-45.6.
- Carr, Donald E., to Phillips Petroleum Co. Production of olefin polymers. 3,120,506, 2-4-64, Cl. 260-93.7.
- Carr, Donald E., to Phillips Petroleum Co. Solid-fluid rocket propellant system. 3,128,599, 4-14-64, Cl. 60-35.6.
- Carr, Edward W., E. P. Decraene, and I. J. Acosta, to Crane Co. Adjustable pressure setting arrangement for pressure responsive valves. 3,122,160, 2-26-64, Cl. 137-484.2.
- Carr, Jack L. Paint washer roller. 3,133,548, 5-19-64, Cl. 134-138.
- Carr, John W.: See—
- Hanus, Edward J., and Carr. 3,161,568.
- Carr, Joseph A. Torque responsive clutch for marine propeller. 3,136,400, 6-9-64, Cl. 192-56.
- Carr, Laurence H., to Edward Valves, Inc. Valve operators. 3,148,553, 9-15-64, Cl. 74-142.
- Carr, Lester, to Texaco Inc. Cap feeding machine. 3,127,053, 3-31-64, Cl. 221-13.
- Carr, Maurice K.: See—
- Lind, Orville E., Jr., and Carr. 3,147,682.
- Carr, Norman L., to The Pure Oil Co. Isomerization catalyst and process. 3,123,573, 3-3-64, Cl. 252-442.
- Carr, Norman L., O. L. Beber, and V. Brozowski, to The Pure Oil Co. Process for hydroisomerization of hydrocarbons including the oxidative regeneration of catalyst employed therein. 3,142,713, 7-28-64, Cl. 26-683.65.
- Carr, Paul: See—
- Meyer, Kenneth H., and Carr. 3,156,160.
- Carr, Richard E.: See—
- Neupert, Marshall P., and Carr. 3,134,698.
- Carr, Robert J.: See—
- Mann, Emmett H., and Carr. 3,124,927.
- Carr, Roderick R.: See—
- Oldfield, Thomas A., and Carr. 3,141,382.
- Carr, Rose C., and C. F. Combination storage case and working table. 3,147,052, 9-1-64, Cl. 312-241.
- Carr, William F., to United States of America, Air Force. Electrical primary flight control system. 3,136,504, 6-9-64, Cl. 244-78.
- Carr, William F., to United States of America, Air Force. Magnetic switch overload device. 3,158,795, 11-24-64, Cl. 317-172.
- Carranza, William L. Bailing twine. 3,137,990, 6-23-64, Cl. 57-140.
- Carrasco, Rene R.: See—
- Hullinger, Clifford H., and Carrasco. 3,144,298.
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- Carrel, Robert L., and P. E. Mayes, to The University of Illinois Foundation. Multi-band log periodic antenna. 3,150,376, 9-22-64, Cl. 343-792.5.
- Carrell, Ross M., W. F. Meeker, and M. L. Touger, to United States of America, Air Force. Ear protector. 3,117,575, 1-14-64, Cl. 128-152.
- Carrell, Theodore R., and T. J. McCulston, to Parker-Hannifin Corp. Joint seal. 3,158,380, 11-24-64, Cl. 277-235.

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Carruthers, Eben H. Machine for packing fish in containers. 3,123,958, 3-10-64, Cl. 53-123.
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Carter, Andrew G., and H. G. Alofs, said Carter assor. to A. G. H. T. Carter, a partnership d.b.a. Carter Engineering Co. Separable fastener biasing system. 3,144,696, 8-18-64, Cl. 24-230.
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- Casas-Campillo, Carlos, to Syntex Corp. Process for 11-hydroxylation of steroids. 3,119,748, 1-28-64, Cl. 195-51.
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- Kuris, Arthur, and Balamuth. 3,123,951.
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- Chapuis, Henri, E. Colombu, P. Granger, and P. M. Pierrat, to Textile and Chemical Research Co. Ltd. Double twist cabling apparatus. 3,121,989, 2-25-64, Cl. 57-58.83.
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- Kozacka, Frederick J. 3,123,694.
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- Chasek, Norman E., to Bell Telephone Laboratories, Inc. Pulse communication system. 3,134,855, 5-26-64, Cl. 179-15.
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Chieger, George, and R. G. Wheeler, to Fruehauf Corp. Auxiliary floor for livestock trailers. 3,116,950, 1-7-64, Cl. 296-24.
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Childers, Eugene, C. W. Ellis, and D. J. Ryan, to E. I. du Pont de Nemours and Co. Method of removing nitrogen oxides from gases. 3,125,408, 3-17-64, Cl. 23-2.
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Childs, Gordon E., to Westinghouse Electric Corp. Apparatus for flashing lamp filaments. 3,140,906, 7-14-64, Cl. 316-27.

Childs, Gordon E., to Westinghouse Electric Corp. Method for flashing lamp filaments. 3,144,286, 8-11-64, Cl. 316-1.

Childs, John E., to Rolfe Electronics Corp. Remote bin level-indicating device. 3,128,557, 4-14-64, Cl. 33-126.6.

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Chilman, John A., and R. T. Elmes, to Dowty Rotol Ltd. Wind motors. 3,149,678, 9-22-64, Cl. 170-76.

Chilton, Harry, deceased, by H. J. Chilton, executrix, to United Kingdom Atomic Energy Authority. Internal fastenings for joints. 3,135,536, 6-2-64, Cl. 285-187.

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Chinn, Leland J., to G. D. Searle & Co. 13a-androst-5-ene-3 β ,17 β -diol and esters thereof. 3,153,062, 10-13-64, Cl. 260-397.5.

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Chioti, Premo, to United States of America, Atomic Energy Commission. Regeneration of fission-products-containing magnesium-thorium alloys. 3,120,435, 2-4-64, Cl. 75-84.1.

Chiras, Stanley J., to Olin Mathieson Chemical Corp. Stabilized liquid ozone. 3,134,048, 5-26-64, Cl. 23-222.

Chirhart, Virgil R. Animated toy. 3,118,248, 1-21-64, Cl. 46-110.

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Chisholm, Alpin. Band tightened by spring-urged gear means. 3,153,333, 10-20-64, Cl. 63-5.

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Chisholm, John P., to Sierra Research Corp. Wide-angle electrically-modulated reflector. 3,158,862, 11-24-64, Cl. 343-18.

Chisholm, John P., M. R. Bates, and R. B. Russell, Jr., to Sierra Research Corp. Non-interfering plural communications system. 3,161,869, 12-15-64, Cl. 343-5.

Chisholm, Matthew C. C., Jr., and K. H. Schomaker, to Teleflex Inc. Remote control apparatus. 3,143,001, 8-4-64, Cl. 74-501.

Chisholm, Roy D., and W. J. Cleary, to General Electric Co. Adjustable hinge mechanisms for doors. 3,132,640, 5-12-64, Cl. 126-194.

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Chisholm, William A., to Arlington Seating Co. Seat structures. 3,156,502, 11-10-64, Cl. 297-452.

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Chitayat, Anwar K., to Optomechanisms, Inc. Satellite tracking means. 3,141,978, 7-21-64, Cl. 250-203.

Chittenden, Abram B. Board game apparatus. 3,155,391, 11-3-64, Cl. 273-131.

Chittleburgh, William F. S., and E. S. Simmonds, to International Standard Electric Corp. Multi-frequency signalling receivers. 3,131,264, 4-28-64, Cl. 179-84.

Chittock, Charles C. Ensilage cutter and loader. 3,121,488, 2-18-64, Cl. 198-9.

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Chiusoli, Giampaolo, F. Minisci, and A. Quilico, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Method of preparing disbasic acids from naphthalene and products obtained. 3,163,673, 12-29-64, Cl. 260-537.

Chiusoli, Gian P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Preparation of alpha-beta, delta-epsilon unsaturated carboxylic derivatives. 3,146,256, 8-25-64, Cl. 260-464.

Chiusoli, Gian P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing the seminitrile of beta-hydroxymuconic acid, its chloride and its lower esters, and products thereof. 3,146,257, 8-25-64, Cl. 260-465.4.

Chiuzzi, Angel F. Lifting device. 3,117,765, 1-14-64, Cl. 254-10.

Chivers, Henry A. Apparatus for supplying a washing liquid to the windscreens of motor vehicles. 3,152,726, 10-13-64, Cl. 222-60.

Chlorator G.m.b.H.: See—

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Choate, Paul V., and C. B. Weeks, to Flightex Fabrics, Inc. Rocket launchers. 3,122,059, 2-25-64, Cl. 89-17.

Choate, Paul V., and C. B. Weeks, to Hesse-Eastern, Inc. Rocket launcher and sight. 3,138,064, 6-23-64, Cl. 89-17.

Choate, William C., J. D. Atlas, and J. A. Wilson, to Esso Research and Engineering Co. Sonic energy transducer. 3,162,368, 12-22-64, Cl. 239-102.

Chocoladefabriken Lindt & Sprungli Aktiengesellschaft: See—

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Chole, Frank C., to United Shoe Machinery Corp. Heel and shank lasting machines. 3,146,474, 9-1-64, Cl. 12-12.1.

Chojnowski, Edward J., and R. J. Woodward, to The Western Union Telegraph Co. Synchronous adapter. 3,147,342, 9-1-64, Cl. 178-23.

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Chomes, Harry. Through-wall flashing structures having a specific groove arrangement. 3,124,427, 3-10-64, Cl. 29-183.

Chope, Henry R., to Industrial Nucleonics Corp. Space communication system. 3,123,714, 3-3-64, Cl. 250-199.

Chope, Henry R., to Industrial Nucleonics Corp. Method and apparatus for measuring multiple properties of material by applying electric fields at multiple frequencies and combining detection signals. 3,155,898, 11-3-64, Cl. 324-58.5.

Chope, Henry R., to Industrial Nucleonics Corp. Physical condition measuring systems. 3,158,028, 11-24-64, Cl. 73-398.

Chordas, John W. Magnetic game and magnetic game piece. 3,143,566, 3-10-64, Cl. 273-93.

Chore-Time Equipment, Inc.: See—

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Chorkey, William J., to Arrow Tools Inc. Cylinder with improved sealing and governor means. 3,122,063, 2-25-64, Cl. 91-26.

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Choudhury, Shafi-Uddin A., to Associated Electrical Industries Ltd. Dynamic braking of A.C. motors. 3,153,182, 10-13-64, Cl. 318-211.

Choufoer, Johannes H.: See—

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Choufoer, Johannes H., H. de Rulter, and D. van Zoonen, to Shell Oil Co. Catalytic conversion of propene into higher boiling hydrocarbons. 3,161,697, 12-15-64, Cl. 260-683.15.

Chouinard, Joseph H. Lawn sweeper attachment. 3,134,118, 5-26-64, Cl. 15-79.

Choumings, Leslie C., to Automotive Products Co. Ltd. Valve mechanism for controlling servo devices of the differential air pressure type. 3,130,551, 4-28-64, Cl. 60-54.5.

Choumings, Leslie C., to Automotive Products Co. Ltd. Disc brakes. 3,149,701, 9-22-64, Cl. 188-73.

Choumings, Leslie C., to Automotive Products Co. Ltd. Sliding plate-type spot disc brakes. 3,158,230, 11-24-64, Cl. 188-73.

Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French. Cycloaliphatic penicillin derivatives. 3,117,119, 1-7-64, Cl. 260-239.1.

Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French Laboratories. Derivatives of 7-aminocephalosporanic acid. 3,131,184, 4-28-64, Cl. 260-243.

Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French Laboratories. Heterocyclic carboxylic acid derivatives of 7-aminocephalosporanic acid compounds. 3,134,774, 5-26-64, Cl. 380-243.

Chow, Alfred W., to Smith Kline & French Laboratories. Derivatives of 6-amino penicillanic acid. 3,147,247, 9-1-64, Cl. 260-239.1.

Chow, Woo F., to General Electric Co. Tunnel diode switching circuits. 3,149,241, 9-15-64, Cl. 307-88.5.

Chrest, Louis R., Jr., to South Bend Toy Mfg. Co., Inc. Convertible chair for dolls and infants. 3,155,425, 11-3-64, Cl. 297-131.

Chreiberg, Augustus M., to The Electric Storage Battery Co. Electric battery and method for operating same. 3,118,100, 1-14-64, Cl. 320-13.

Chreiberg, Augustus M., to The Electric Storage Battery Co. Gas permeable container. 3,159,508, 12-1-64, Cl. 136-166.

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Christ, Charles: See—

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Christen, Gilbert: See—

Fournet, Andre, Christen, and Chambard. 3,157,527.

Christen, Gilbert P., and E. M. Guidal, to Societe des Usines Chimiques Rhone-Poulenc. Graft copolymer of 1,3-butadiene on vinyl chloride-vinyl acetate copolymer. 3,119,786, 1-28-64, Cl. 260-45.5.

Christensen, Ahlman C., deceased, J. M. Christensen, executrix. Knock-down shelving assembly. 3,141,423, 7-21-64, Cl. 108-111.

Christensen, Antone M. Utility tray. 3,126,100, 3-24-64, Cl. 211-126.

Christensen, Arthur E. Artificial fly. 3,133,371, 5-19-64, Cl. 43-42.25.

Christensen, Bent, to Philco Corp. Stabilized unilateral negative-resistance amplifier. 3,160,823, 12-8-64, Cl. 330-6.

Christensen, Bent, to Westinghouse Electric Corp. Monolithic semiconductor circuit with energy storage junction and feedback to active transistor to produce two terminal inductance. 3,160,835, 12-8-64, Cl. 333-80.

Christensen Diamond Products Co.: See—

Christensen, Frank L. 3,127,715.

Christensen, Frank L. 3,162,187.

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Mori, Takeshi. 3,127,943.

Ritter, Marcel G. 3,135,341.

Christensen, Donald E., to Weyerhaeuser Co. Patching compound. 3,162,542, 12-22-64, Cl. 106-200.

Christensen, Edward R.: See—

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Christensen, Frank L., to Christensen Diamond Products Co. Diamond cutting devices. 3,127,715, 4-7-64, Cl. 51-206.

Christensen, Frank L., to Tempres Research Co., Inc. Diamond scriber. 3,138,875, 6-30-64, Cl. 33-18.

Christensen, Frank L., to Christensen Diamond Products Co. Diamond saw blades. 3,162,187, 12-22-64, Cl. 125-15.

Christensen, Gordon P.: See—

Carpenter, Robert L., and Christensen. 3,117,692.

Christensen, Henning J.: See—

Matuschkovitz, Richard K., and Christensen. 3,124,450.

Christensen, Howard, and R. S. Wagner, to Bell Telephone Laboratories, Inc. Epitaxial deposition on the surface of a freshly grown dendrite. 3,152,022, 10-6-64, Cl. 148-175.

Christensen, James, to Schick Electric Inc. Sleeve mounting means. 3,145,451, 8-25-64, Cl. 29-117.

Christensen, Jens J. Horse shoe. 3,163,230, 12-29-64, Cl. 168-22.

Christensen, John W.: See—

Ferris, Robert C., and Christensen. 3,130,124.

Christensen, Joseph M. Coin handling mechanism. 3,154,246, 10-27-64, Cl. 232-62.

Christensen, Julia M.: See—

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Christensen, Kenneth K.: See—

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Christensen, Ole B. Invalid lift. 3,116,492, 1-7-64, Cl. 5-85.

Christensen, Paul M., and T. M. Cole, to Federal Pacific Electric Co. Plug-in bus duct. 3,126,240, 3-24-64, Cl. 339-22.

Christensen, Roy H., to Douglas Aircraft Co., Inc. Fatigue monitor. 3,136,154, 6-9-64, Cl. 73-88.

Christensen, George L.: See—

Dale, Lamar B., Jr., Christensen, and Pogge. 3,129,139.

Christenson, Howard W., W. G. Livezey, and U. A. Breting, to General Motors Corp. Transmission. 3,147,643, 9-8-64, Cl. 74-759.

Christenson, John C., and D. H. Link, to Clark Equipment Co. Differential steering apparatus. 3,130,981, 4-28-64, Cl. 280-93.

Christenson, Roger M., to Pittsburgh Plate Glass Co. Metal salts of α,α -bis-(para-hydroxy-phenyl)-valenic acid. 3,133,944, 5-19-64, Cl. 260-434.

Christenson, Roger M., and F. S. Shahade, to Pittsburgh Plate Glass Co. Compositions comprising carboxylic acid amide interpolymer and a hydroxyl-containing polymer. 3,118,852, 1-21-64, Cl. 260-45.2.

Christensson, Od V. Method of vacuum closing lined packages of cardboard. 3,153,886, 10-27-64, Cl. 53-22.

Christensson, Od W. Arrangement in machines for the production of lined packages. 3,142,231, 7-28-64, Cl. 93-36.6.

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Schwickert, Otto. 3,117,045.

Christian, Ramsey: See—

Weinstein, Robert, Rose, and Christian. 3,146,267.

Christian, Raymond A., H. C. Johnson, A. R. Colley, Sr., and R. C. Elfort, to The National Cash Register Co. Tabulation control mechanism for accounting machines. 3,161,354, 12-15-64, Cl. 235-60.47.

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Christiansen, Charles H. Forage harvesting units. 3,135,080, 6-2-64, Cl. 56-24.

Christiansen, Godtfred K., to Interlego A. G. Toy building element. 3,162,973, 12-29-64, Cl. 46-25.

Christiansen, James S., to Healthways. Diver's flag. 3,149,352, 9-22-64, Cl. 9-8.

Christiansen, Milton J., deceased, by B. E. Christiansen, executrix, to Western Electric Co., Inc. Device for raising and tipping containers. 3,121,504, 2-18-64, Cl. 214-313.

Christiansen, Milton J., deceased, by B. E. Christiansen, executrix, to Western Electric Co., Inc. Device for inverting containers to empty contents thereof. 3,127,039, 3-31-64, Cl. 214-313.

Christiansen, Robert G.: See—

Clinton, Raymond O., and Christiansen. 3,120,516.

Christiansen, Robert G., to Sterling Drug Inc. 5-cyano steroids, their preparation, and derivatives thereof. 3,120,515, 2-4-64, Cl. 260-239.5.

Christiansen, Robert G., R. O. Clinton, and J. W. Dean, to Sterling Drug Inc. 16-substituted androstanes and androstenes. 3,165,641, 12-29-64, Cl. 260-239.5.

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Christianson, Charles, and R. C. Maggio, to United States of America, Navy. Apparatus for evaporation and drying of radioactive samples. 3,139,370, 6-30-64, Cl. 159-32.

Christie, Donald R., and A. Schliff, to Huyck Corp. Apparatus for treating endless fabrics. 3,149,003, 9-15-64, Cl. 118-34.

Christie, George L. Pendulum drawing device. 3,143,807, 8-11-64, Cl. 33-27.

Christie, Leonard D., Jr., to The Babcock & Wilcox Co. Alkali resistant mullite refractory. 3,128,194, 4-7-64, Cl. 106-67.

Christine, William C., and J. E. Pierce, to Allen Electronics, Inc. Vending machine. 3,133,671, 5-19-64, Cl. 221-14.

Christman, Charles P., to General Motors Corp. Cable clip means. 3,126,185, 3-24-64, Cl. 248-74.

Christman, Charles W., to Formacel, Inc. Process and apparatus for producing cellular material. 3,162,942, 12-29-64, Cl. 29-455.

Christman, Clarence C., R. Cicchetti, and Timson, to Merck & Co., Inc. Vacuum drum drying of streptomycin sulfate. 3,142,670, 7-28-64, Cl. 260-210.

Christmann, John L., to Merrick Scale Mfg. Co. Means for suspending a scale conveyor. 3,133,605, 5-19-64, Cl. 177-16.

Christoff, Chris A.: See—

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Clary, Hugh L., Kuhne, and Christoff. 3,151,546.

Christoff, Chris A., to Clary Corp. Printer. 3,128,695, 4-14-64, Cl. 101-93.

Christoff, Chris A., to Clary Corp. Printer. 3,136,243, 6-9-64, Cl. 101-93.

Christoff, Chris A., to Clary Corp. Pulse generator. 3,147,425, 9-1-64, Cl. 323-90.

Christoff, James W., and R. A. Peppin, to Mannix Co., Ltd. Railroad track working equipment. 3,144,833, 8-18-64, Cl. 104-7.

Christoffel, Ivan, and D. P. Schutz, to Allied Chemical Corp. Purification of melamine. 3,161,638, 12-15-64, Cl. 260-249.7.

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Christoffers, William H., and J. E. Nevins, Jr., to Hughes Aircraft Co. Severed traveling-wave tube with external terminations. 3,123,736, 3-3-64, Cl. 315-3.6.

- Christofferson, Agnes W., to L. E. Lerner. Buoyant bathing suit. 3,134,994, 6-2-64, Cl. 9-334.
- Christofferson, Donald F.: See—
- Toland, Wayne G., and Christofferson. 3,117,820.
- Christoph, Frank J., Jr., to E. I. du Pont de Nemours and Co. Process for the purification of hydrogen chloride gas contaminated with phosgene. 3,142,535, 7-28-64, Cl. 23-154.
- Christoph, Albert J., to Alkirk, Inc. Tripod head. 3,128,982, 4-14-64, Cl. 248-183.
- Christopher, Glenn B. Dispenser which presents a cigarette in an erect position. 3,119,520, 1-28-64, Cl. 221-202.
- Christopher, Glenn B., to Jet Research Center, Inc. Shaped charge perforating unit and all perforating apparatus employing the same. 3,128,702, 4-14-64, Cl. 102-20.
- Christopher, Joseph A. Meat hanger. 3,143,329, 8-4-64, Cl. 248-317.
- Christopher, Walter S., to Chicago Lock Co. Lock assembly for a refrigerated cabinet or the like. 3,122,012, 2-25-64, Cl. 70-140.
- Christopher, Walter S., to Chicago Lock Co. Adjustable key and assembly jig therefor. 3,142,167, 7-28-64, Cl. 70-411.
- Christophers, Nicholas J.: See—
- Monaghan, Cecil Z., and Christophers. 3,123,178.
- Christy, Robert W., to Space Technology Laboratories, Inc. Method for the deposition of thin films by electron deposition. 3,119,707, 1-28-64, Cl. 117-37.
- Chromalloy Corp.: See—
- Gundlach, Richard P., and Heldbreder. 3,141,410.
- Tarkan, Stuart E., and Wojtowicz. 3,145,100.
- Chromcraft Corp.: See—
- Nash, John J. 3,137,372.
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Clark, Milton W., to The Anaconda Co. Rotary car dumper. 3,116,843, 1-7-64, Cl. 214-55.
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Clark, Nigel G., H. A. Stevenson, R. F. Brookes, and A. F. Hams, to Boots Pure Drug Co. Ltd. Halo-nitroaniline fungicides. 3,119,736, 1-28-64, Cl. 167-30.
Clark, Noah W., W. T. Cooper, and C. P. Williams; said Clark and said Williams assors. to W. T. Cooper. Coupling for sheet metal conduits. 3,154,330, 10-27-64, Cl. 285-419.
Clark, Oliver R., to General Electric Co. Food waste disposer. 3,163,370, 12-29-64, Cl. 241-86.
Clark, Peter F., H. T. Howard, and J. Wardleworth, to Imperial Chemical Industries Ltd. Copper and nickel phthalocyanine dyestuffs and a mono- and di-halo-substituted triazine ring. 3,133,059, 5-12-64, Cl. 260-242.
Clark, Philip B., and D. W. Harling, to McGraw-Edison Co. Adjustable side mount for a light. 3,142,501, 7-28-64, Cl. 285-184.

- Clark, Philip M.: See—
Steinert, Leopold A., Dempsey, and Clark. 3,141,828.
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Clark, Raymond D., and E. G. Nations, to Eastman Kodak Co. Preparation of alkali metal enolates of 2,2,4,4-tetraalkylacetoacetic esters. 3,157,692, 11-17-64, Cl. 260-483.
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Clark, Richard A., to American Brake Shoe Co. Hydraulic motors. 3,135,167, 6-2-64, Cl. 91-175.
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Clark, Richard B., to The Bendix Corp. Small alternator. 3,150,278, 9-22-64, Cl. 310-89.
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Clark, Robert L., and E. F. Rogers, to Merck & Co., Inc. Coccidiosis control composition. 3,141,820, 7-21-64, Cl. 167-53.1.
Clark, Ruel R., to Larrie D. White. Write-in voting card for voting machine system. 3,158,316, 11-24-64, Cl. 235-50.
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Ager, John W., Jr., Clark, and Heying. 3,146,260.
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Clark, Sheldon L., H. L. Goldstein, and T. L. Heying, to Olin Mathieson Chemical Corp. Organoboron copolymers and method for their preparation. 3,121,117, 2-11-64, Cl. 260-606.5.
Clark, Stephens C., Jr., and J. E. Jones, to General Electric Co. Automatic control apparatus. 3,123,657, 3-3-64, Cl. 266-23.
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Hickey, William W. 3,131,117.
Clark, Walter E., and H. W. Godbee, to United States of America Atomic Energy Commission. Suppression of ruthenium volatilization in evaporation and calcination of radioactive waste solutions. 3,120,493, 2-4-64, Cl. 252-301.1.
Clark, Wendall J., to Texaco Experiment Inc. Pressure responsive motor. 3,124,960, 3-17-64, Cl. 73-410.
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Clark, Willard L. Hair-cutting guide. 3,125,101, 3-17-64, Cl. 132-45.
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Clarke, Frank J., and J. H. Smithes. Apparatus for the mechanical treading of grapes. 3,140,653, 7-14-64, Cl. 100-238.
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Clarke, Ray A., to E. I. du Pont de Nemours, and Co. Quin-olyl-benzothiazole compounds. 3,152,132, 10-6-64, Cl. 260-288.
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Martin, Ralph E. 3,147,700.
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- Clary, Hugh L., B. F. Kuhne, and C. A. Christoff, to Addmaster Corp. Calculating machine. 3,151,546, 10-6-64, Cl. 101-93.
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- Clasen, Claus J. W., to Standard Car Truck Co. Stabilized railway car truck. 3,127,850, 4-7-64, Cl. 105-197.
- Clasen, Edward W. Pill counting device. 3,150,785, 9-29-64, Cl. 214-1.
- Clasen, Joachim, F. Eisele, and W. Conrad, to Daimler-Benz Aktiengesellschaft. Door having swinging door wings. 3,131,923, 5-5-64, Cl. 268-30.
- Clason, Bertil H., to General Motors Corp. Paddle type flow indicator switch. 3,148,254, 9-8-64, Cl. 200-81.9.
- Clason, Jan C., and G. C. Damstra, to Fabrik Van Electrische Apparaten Voorheen F. Hazemeljer & Co., N.V. Three-phase A.C. electric circuit breaker. 3,126,463, 3-24-64, Cl. 200-145.
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- Clausen, Marvin D., to P. M. Jilbert, and 1/2 to D. C. Kjellstrup. Stake setter. 3,143,805, 8-11-64, Cl. 33-74.
- Clausen, Sigurd, to International Cigar Machinery Co. Toscani cigar machine. 3,128,774, 4-14-64, Cl. 131-91.
- Clauser, Milton U., and R. X. Meyer, to Space Technology Laboratories, Inc. Magneto-hydrodynamic control systems. 3,162,398, 12-22-64, Cl. 244-14.
- Clausl, Adolph S., W. L. Vollink, and E. W. Michael, to General Foods Corp. Breakfast cereal process. 3,121,637, 2-18-64, Cl. 99-80.
- Clausing, Paul. Locking means for belt type stamp imprinting devices. 3,128,697, 4-14-64, Cl. 101-111.
- Clausing, Robert E., to United States of America, Atomic Energy Commission. Method for maintaining very high vacuum in a system. 3,140,820, 7-14-64, Cl. 230-69.
- Clauson, Alfred E., to The General Electric Co. Ltd. Servicing mechanism for gas-cooled nuclear reactors. 3,122,485, 2-25-64, Cl. 176-30.
- Clauson, Sigurd, to American Machine & Foundry Co. Tobacco web severing machine having a reciprocating roller cooperating with a fixed knife in both directions of traverse. 3,154,987, 11-3-64, Cl. 83-152.
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- Clay, Clarence S., Jr. Signal correlation method and means. 3,158,830, 11-24-64, Cl. 340-3.
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- Clayton, William. Support stand. 3,139,951, 7-7-64, Cl. 182-186.
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- Clayton, William H., Jr., to Combustion Engineering, Inc. Double reheat power plant arrangement. 3,155,078, 11-3-64, Cl. 122-479.
- Clayton, William H., Jr., to Combustion Engineering, Inc. Supercritical vapor generator power plant system. 3,155,079, 11-3-64, Cl. 122-479.
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- Claywell, Jack W., to Preway Inc. Gas dishwasher control circuit. 3,149,637, 9-22-64, Cl. 134-57.
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- Cleall, Alfred F., to Babcock & Wilcox Ltd. Liquid atomizers generating heat at variable rate through the combustion of liquid fuel. 3,145,931, 8-25-64, Cl. 239-102.
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- Cleary, Robert T., to Automatic Electric Laboratories, Inc. Loudspeaking telephone with electronic voice switching. 3,136,864, 6-9-64, Cl. 179-81.
- Cleary, Robert T., R. V. Burns, and R. F. Huckstadt, to Automatic Electric Laboratories, Inc. Arrangement for lighting a lamp at a substation. 3,141,068, 7-14-64, Cl. 179-81.
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- Cleaver, Frank C., Sr. Lifting device for aircraft. 3,139,935, 7-7-64, Cl. 170-135.
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- Cleaver, Louis T., to United States of America, Interior. Automatic controller. 3,117,586, 1-14-64, Cl. 137-78.
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- Cleaver, Richard F., and F. G. Cockerill, to International Standard Electric Corp. Radio navigation receiver arrangement. 3,149,335, 9-15-64, Cl. 343-113.
- Cleek, George K., and A. Sadle, to Allied Chemical Corp. Solutions of melamine-formaldehyde reaction products and processes for their production. 3,129,226, 4-14-64, Cl. 260-249.6.
- Cleek, Given W., and E. H. Hamilton, to United States of America, Navy. Infrared transmitting glasses. 3,119,703, 1-28-64, Cl. 106-47.
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- Clejan, Deodat, to General American Transportation Corp. Freight transportation systems and methods. 3,143,978, 8-11-64, Cl. 105-368.
- Clejan, Deodat, to General American Transportation Corp. Freight transportation systems. 3,158,106, 11-24-64, Cl. 105-366.
- Cleland, Charles E., and R. L. Crane, to Continental Machines, Inc. Cold working process for stress relieving metal stock. 3,117,036, 1-7-64, Cl. 148-4.
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- Clelland, James B., to Sun Oil Co. High impact strength composition containing isatactic polypropylene, asphalt and elastomer. 3,154,508, 10-27-64, Cl. 260-28.5.
- Clemans, Orlo W. Clamp stop for saw fences. 3,124,181, 3-10-64, Cl. 143-168.
- Clemens, David H., to Rohm & Haas Co. Formamidinium salts. 3,143,571, 8-4-64, Cl. 260-564.
- Clemens, David H., to Rohm & Haas Co. Novel monomers, polymers, lacquers, and coated articles. 3,150,118, 9-22-64, Cl. 260-78.5.
- Clemens, John E., B. B. Johnstone, and J. D. Ray, to United Shoe Machinery Corp. Machine for mounting transistors and the like. 3,151,387, 10-6-64, Cl. 29-203.
- Clemens, Ludwig. Knock-down storage bin. 3,147,908, 9-8-64, Cl. 229-23.
- Clemens, Ogden A.: See—
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- Clemens, Ogden A., H. P. Bonhelmer, and H. H. Trombly, to Swift & Co. Continuous manufacture of sausage. 3,122,989, 3-3-64, Cl. 99-358.
- Clement, Elmer F. Container support for gravestones. 3,145,847, 8-25-64, Cl. 211-71.
- Clement, Frank L. Articulated chassis dump trailer. 3,158,402, 11-24-64, Cl. 298-20.
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- Clement, Warren J., to Sprague Electric Co. Electrolytic capacitor seal. 3,131,337, 4-28-64, Cl. 317-230.
- Clements, Ernest L. Weighing and discharge apparatus. 3,129,779, 4-21-64, Cl. 177-114.
- Clements, Francis J.: See—
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- Clements Mfg. Co.: See—
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- Clements, Roy J., B. D. Lee, R. B. Stelzer, and W. R. McEvers, Jr., to Texaco Inc. Well logging apparatus having detector means in a rotatable casing mounted within a drill string for simultaneous drilling and logging. 3,134,069, 5-19-64, Cl. 324-10.
- Clements, Roy J., L. M. Evans, J. J. Havlik, and B. H. Towell, to Texaco, Inc. Well logging apparatus. 3,149,490, 9-22-64, Cl. 73-151.
- Clements, Roy J., B. D. Lee, and R. B. Stelzer, to Texaco, Inc. Geophysical prospecting apparatus. 3,149,683, 9-22-64, Cl. 175-50.
- Clements, Roy J., G. Herzog, and W. R. McEvers, Jr., to Texaco, Inc. Geophysical prospecting apparatus with fluid operated electrical generator for logging while drilling. 3,163,816, 12-29-64, Cl. 324-1.
- Clements, Warner W. Electromagnetic bistable relay. 3,118,987, 1-21-64, Cl. 200-87.
- Clements, Werner W. Combined relay and transformer unit. 3,134,952, 5-26-64, Cl. 336-105.
- Clements, William J.: See—
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- Clemminshaw, William T., and W. G. Webster, to Parker-Hennifin Corp. Flow divider for dual-orifice fuel injection nozzle. 3,154,095, 10-27-64, Cl. 137-469.
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- Clemmons, Donald G., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,133,271, 5-12-64, Cl. 340-174.
- Clemmons, Vernon B., and P. B. Bechtel. Locking mechanism for skis and accessories. 3,133,619, 5-19-64, Cl. 194-64.
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- Clergue, Jean M. B., and Y. E. M. Londe, to The Societe Nouvelle d'Electronique. Electronic marking apparatus for the generation of marker signs. 3,118,085, 1-14-64, Cl. 315-26.
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 Cochran, Clarence W., deceased, by L. Cochran, administratrix, to United-Carr Fastener Corp. Molding fastener. 3,120,884, 2-11-64, Cl. 189-88.

- Cochran, Clarence W., deceased, by L. F. Cochran, administratrix, to United-Carr, Inc. Wiring clip having a stud engagement means. 3,163,712, 12-29-64, Cl. 174-164.
- Cochran, Clement B., to Eagle Iron Works. Control device for controlling discharge of settling from a water scalping tank or the like. 3,129,849, 4-21-64, Cl. 222-64.
- Cochran, Clement B., to Eagle Iron Works. Control system. 3,180,321, 12-8-64, Cl. 222-64.
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- Cochran, Richard L., to The Buehler Corp. Jet boat discharge mounting assembly. 3,134,357, 5-26-64, Cl. 115-14.
- Cochran, William C., and W. P. Kampert, to Aluminum Co. of America. Anodizing electrolyte and method. 3,146,178, 8-25-64, Cl. 204-58.
- Cochran, William T., G. K. Helder, and J. A. Mines, to Bell Telephone Laboratories, Inc. Transmission measuring system. 3,143,604, 8-4-64, Cl. 179-175.3.
- Cochrane, Harry R., and J. A. Daniell. Wall mounted telephone box rack. 3,125,224, 3-17-64, Cl. 211-106.
- Cochrane, Harry W., to International Business Machines Corp. Core matrix calculator. 3,157,779, 11-17-64, Cl. 235-157.
- Cochrane, William D., and G. W. Wright, to Nashua Corp. Manufacture of double phase adhesive films. 3,154,428, 10-27-64, Cl. 117-122.
- Cockburn, David H., to Adjustable height golf practice tee with hinged striking plate. 3,161,411, 12-15-64, Cl. 273-195.
- Cocker, John III, to Cocker Machine & Foundry Co. Method for treating continuous running materials. 3,120,050, 2-4-64, Cl. 28-72.6.
- Cocker, John, III, to Cocker Machine & Foundry Co. Drying section for a textile apparatus. 3,123,449, 3-3-64, Cl. 34-121.
- Cocker, John T., to Bell Telephone Laboratories, Inc. Circuit for measuring the time symmetry of waveform polarity. 3,147,434, 9-1-64, Cl. 324-77.
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- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water having fluid curtains formed by injector action. 3,117,643, 1-14-64, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect machine with fluid curtain forming and maintaining means. 3,117,644, 1-14-64, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect vehicle with curtain reinforcing means. 3,117,645, 1-14-64, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect vehicle with integrated directional and propulsive thrust means. 3,118,513, 1-21-64, Cl. 180-7.
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- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicle for travelling over land and/or water. 3,162,260, 12-22-64, Cl. 180-7.
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- Cleaver, Richard E., and Cockerill. 3,149,335.
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- Cockshutt Farm Equipment of Canada Ltd.: See—
- McNeil, Donald H.: 3,155,473.
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- Gardner, Frank H., and Codd. 3,162,192.
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- Coddington, John L., and F. D. Diller, to Arco Corp. Decimal computer employing coincident gate responsive to a pair of counters. 3,126,475, 3-24-64, Cl. 235-180.
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- Codignola, Franco, to Societa Italiana Resine. Method of hydrogenating alpha-methylstyrene to cumene. 3,127,452, 3-31-64, Cl. 260-667.
- Codignola, Franco, to Societa Italiana Resine. Recovery of acetone by distillation in the presence of sodium peroxide. 3,129,147, 4-14-64, Cl. 202-59.
- Codignola, Franco, C. G. A. Clayton, J. Ackermann, and G. K. E. Vogel, to Societa Italiana Resine. Process for purifying gaseous formaldehyde. 3,118,747, 1-21-64, Cl. 55-38.
- Codos, William V., to Pathe Equipment Co., Inc. Method of bonding polyurethane foam to base materials by flame treatment. 3,131,105, 4-28-64, Cl. 156-82.
- Codrington, Robert S., to Schlumberger Well Surveying Corp. Magnetic resonance systems. 3,128,425, 4-7-64, Cl. 324-5.
- Codsen Oil & Chemical Co.: See—
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- Coe, Benjamin, to Woodside Industries, Inc. Door-actuated threshold seal. 3,123,870, 8-10-64, Cl. 20-64.
- Coe, David G., to E. I. du Pont de Nemours and Co. Phenylphenazinium cationic dyes. 3,121,711, 2-18-64, Cl. 260-146.
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- Coe, Thomas D., to Wakefield Engineering, Inc. Cooler. 3,149,668, 9-22-64, Cl. 165-121.
- Coen, Aldo L., Loud speaker structure. 3,133,162, 5-12-64, Cl. 179-119.
- Coen, Aldo L., Method of working metal. 3,138,864, 6-30-64, Cl. 29-537.
- Coenen, Willem F., Operating mechanism for a sliding roof for carriage bodies. 3,137,491, 6-16-64, Cl. 268-46.
- Coes, Loring, Jr., to Norton Co. Precision pump. 3,136,455, 6-9-64, Cl. 222-319.
- Coes, Samuel H., to Norton Co. Method of making cold ends for silicon carbide resistor bars. 3,137,590, 6-16-64, Cl. 117-201.
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- Coffaro, John S., and J. De Francis, Jr., to De Francis Machine Corp. Weighing machine for stranded products. 3,134,449, 5-26-64, Cl. 177-57.
- Coffee, Ralph E., to Olin Mathieson Chemical Corp. Particulate nitrocellulose coated with sorbitan trioleate. 3,118,797, 1-21-64, Cl. 149-10.
- Coffee, Robert D., to Eastman Kodak Co. Extrusion die incorporating a hydraulically deformable orifice. 3,122,789, 3-3-64, Cl. 18-12.
- Coffelt, Robert J., to The Regents of the University of California. Serpentine fruit press. 3,130,667, 4-28-64, Cl. 100-118.
- Coffey, Charles D., to Deutsch Controls Corp. Automatic thermostatic control device. 3,122,317, 2-25-64, Cl. 236-21.
- Coffey, Charles S., to Edgerton, Germeshausen & Grier, Inc. Transformer coupled multivibrator. 3,144,565, 8-11-64, Cl. 307-88.5.
- Coffey, Daniel F., Jr., to Marinette and Menominee Box Company. Bulk bin. 3,159,300, 12-1-64, Cl. 217-65.
- Coffey, Ralph J., to American Chain & Cable Co., Inc. Welding means. 3,131,282, 4-28-64, Cl. 219-51.
- Coffey, Ralph J., to American Chain & Cable Co., Inc. Straightening and cutting of rod. 3,152,631, 10-13-64, Cl. 153-80.
- Coffey, Robert G., Kite and stabilizing means therefor. 3,120,366, 2-4-64, Cl. 244-153.
- Coffey, Roger T., Means for preventing rotation of pendulous element of hub odometer. 3,130,907, 4-28-64, Cl. 235-95.
- Coffey, William J., Clothespin. 3,141,212, 7-21-64, Cl. 24-138.
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- Closson, Rex D., and Coffield. 3,159,680.
- Closson, Rex D., Coffield, Klopfer, and Shapiro. 3,155,620.
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- Coffield, Thomas H., to Ethyl Corp. Nitroso-manganese tetracarbonyl. 3,118,728, 1-21-64, Cl. 23-14.
- Coffield, Thomas H., to Ethyl Corp. Hydrocarbon compositions. 3,132,102, 5-5-64, Cl. 252-42.4.
- Coffield, Thomas H., and R. P. M. Werner, to Ethyl Corp. Organometallic compounds. 3,124,600, 3-10-64, Cl. 260-346.1.
- Coffield, Thomas H., and R. D. Closson, to Ethyl Corp. Ionic aromatic compounds of transition metals having atomic numbers from 7 to 14 less than that of the next higher rare gas. 3,130,214, 4-21-64, Cl. 260-429.
- Coffield, Thomas H., and A. H. Filbey, to Ethyl Corp. Stabilized organic material. 3,156,543, 11-10-64, Cl. 44-78.
- Coffin, Lucien, and C. Le Feuvre, to l'Electricite de France (Service National). Loading-unloading device for nuclear reactor. 3,151,033, 9-29-64, Cl. 176-30.
- Coffman, Donald D., and J. F. Harris, Jr., to E. I. du Pont de Nemours and Co. 2,3 and 2,3,4 perfluoro carbon substituted perfluoro oxetanes. 3,125,581, 3-17-64, Cl. 260-333.
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- Cofrancesco, Anthony J., to General Aniline & Film Corp. Process for the preparation of 4-nitrostilbene carbonitriles. 3,130,218, 4-21-64, Cl. 260-465.
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- Cogez, Paul, J. Dubulsson, and J. Humbert, to Commissariat a l'Energie Atomique. Mechanical movement gate-valve having positive reduction means. 3,120,944, 2-11-64, Cl. 251-158.
- Cogez, Paul, J. Humbert, and C. Gewiss, to Commissariat a l'Energie Atomique. Apparatus for measuring the coefficient of thermal conductivity of solid materials. 3,142,979, 8-4-64, Cl. 73-15.
- Coggeshall, Almy D., to General Electric Co. Structure for retaining generator end windings. 3,135,888, 6-2-64, Cl. 310-271.
- Coggeshall, Almy D., J. I. Whittlesey, and W. L. Darby, to General Electric Co. Armature bar vibration damping arrangement. 3,158,770, 11-24-64, Cl. 310-214.
- Coggeshall, Norman D., and M. S. Norris, to Gulf Research & Development Co. Process for controlling carbon residue content of oil. 3,121,677, 2-18-64, Cl. 208-178.
- Coggins, Robert W.: See—
- Glasgow, Clarence O., and Coggins. 3,119,674.
- Coghill, James R., to The Black-Clawson Co. Apparatus for coating a moving web. 3,131,092, 4-28-64, Cl. 118-413.
- Cognet, Firmin E. A., and L. L. Mohler, to Societe Anonyme dite Societe Generale d'Exploitations Industrielles. Anchoring device for continuous sleeves surrounding electrical bars. 3,138,659, 6-23-64, Cl. 174-95.
- Cognie, Emile A., Mechanical control system for the inward rocking of the independent shares of a plough removing spoil heaps in vineyards. 3,144,911, 8-18-64, Cl. 172-234.
- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 3,122,947, 3-3-64, Cl. 77-73.5.
- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 3,132,543, 5-12-64, Cl. 77-73.5.
- Cogsdill Tool Products, Inc.: See—
- Cogsdill, Stuart A.: 3,122,947.
- Cogsdill, Stuart A.: 3,132,543.
- Cogswell, David W., Mountings for directionally selective ray detecting devices. 3,147,553, 9-8-64, Cl. 33-46.
- Cohan, Hilda: See—
- Cohan, Marvin M.: 3,156,048.
- Cohan, Leo J., and D. Young, to Combustion Engineering, Inc. Combustion inducer for refuse incinerator using horizontal traveling grate stoker. 3,152,562, 10-13-64, Cl. 110-8.
- Cohan, Marvin M., deceased, by H. Cohan, executrix. Bowling ball grip fitting device. 3,156,048, 11-10-64, Cl. 33-174.
- Cohen, Aaron, M. F. Lisio, and P. Okstein, to United States of America, Navy. Methods of constructing a traveling wave tube. 3,132,410, 5-12-64, Cl. 29-25.14.
- Cohen, Aaron I., Apparatus for the projection of distorted images. 3,140,347, 7-7-64, Cl. 178-5.8.
- Cohen, Aaron J., Furnace for burnt clay and flexible road base material. 3,140,865, 7-14-64, Cl. 263-30.
- Cohen, Abe. Automatic stem and crown assembly device. 3,148,443, 9-15-64, Cl. 29-240.
- Cohen, Abe, and V. Tchetchet. Boat. 3,117,547, 1-14-64, Cl. 114-66.5.
- Cohen, Abraham B.: See—
- Celeste, Jack R., and Cohen. 3,155,515.
- Cohen, Abraham J., to Sports Arenas, Inc. Bowling pin conditioner. 3,160,901, 12-15-64, Cl. 15-4.
- Cohen, Alfred G.: See—
- Small, Samuel N.: 3,120,978.
- Small, Samuel N.: 3,149,638.
- Small, Samuel N.: 3,155,353.
- Cohen, Arthur. Releaseable clamp for vehicle muffler. 3,129,962, 4-21-64, Cl. 285-371.
- Cohen, Arthur, to Carrier Corp. Fusible protector for a refrigeration system. 3,138,936, 6-30-64, Cl. 62-77.
- Cohen, Arthur M., Sensing or control system. 3,147,931, 9-8-64, Cl. 242-45.
- Cohen, Bernard, to Miller Harness Co., Inc. Protective quarter boot for the front of a horse. 3,119,219, 1-28-64, Cl. 54-82.
- Cohen, Edward S.: See—
- Weiss, Malcolm A., Cohen, and Binder. 3,138,203.
- Cohen, George. Camera accessory for coating prints. 3,132,049, 5-5-64, Cl. 118-264.
- Cohen, Harold L.: See—
- Schechmeister, Isaac L., and Cohen. 3,122,127.
- Cohen, Howard H.: See—
- Anderson, James D., Brautigam, and Cohen. 3,135,043.
- Cohen, Irvin, and B. D. Levy, to Construction Fasteners, Inc. Surface sealing fastener assembly. 3,160,054, 12-8-64, Cl. 85-1.
- Cohen, Irving A., H. C. Dellinger, M. L. Kasbohm, and J. N. Williams, to Union Carbide Corp. Process and apparatus for the filling, transportation and dispensing of hazardous fluids. 3,151,467, 10-6-64, Cl. 62-48.
- Cohen, Jerome, to Armour and Co. Benzolic acid treatment of collagen fibers and chrome tannage thereof. 3,126,433, 3-24-64, Cl. 264-176.
- Cohen, Jerry: See—
- Shumer, Murray, and Cohen. 3,128,448.
- Cohen, Kenneth P., and C. A. R. Corbett, to Plastimay Corp. Air-supported structure. 3,159,165, 12-1-64, Cl. 135-1.
- Cohen, Leonard. Metal spool. 3,134,557, 5-26-64, Cl. 242-118.61.
- Cohen, Leonard D., and J. A. Noland, to General Telephone and Electronics Laboratories, Inc. Microwave tube with shielded ladder-type delay structure. 3,160,781, 12-8-64, Cl. 315-3.5.
- Cohen, Louis: See—
- Garofalo, Vito M.: 3,131,682.
- Garofalo, Vito M.: 3,159,154.
- Cohen, Louis H., to Phelps Time Recording Lock Corp. Lock for a sequential locking system. 3,154,938, 11-3-64, Cl. 70-134.
- Cohen, Marvin P.: See—
- Shavel, John, Jr., von Strandtmann, and Cohen. 3,152,135.
- Cohen, Maurice M., Hair extracting device. 3,152,593, 10-13-64, Cl. 128-355.
- Cohen, Melvin: See—
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- Rumbel, Keith E., Nugent, Scurlock, and Cohen. 3,116,692.
- Cohen, Milton J., to Pharmaceutical, Inc. Infusion flask. 3,125,092, 3-17-64, Cl. 128-272.
- Cohen, Milton J., Fluid withdrawal device and container. 3,159,159, 12-1-64, Cl. 128-2.
- Cohen, Milton J., Disposable swab and culture medium device. 3,163,160, 12-29-64, Cl. 128-2.
- Cohen, Murray S.: See—
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- Cohen, Murray S., D. D. Perry, and P. J. Keenan, to Thiokol Chemical Corp. Propargyl nitramine and method of making the same. 3,120,566, 2-4-64, Cl. 260-583.
- Cohen, Neal B.: See—
- Lang, Albert P., and Cohen. 3,152,489.
- Cohen, Neal B., to Sperry Rand Corp. Single-edge guide for moving tape. 3,143,270, 8-4-64, Cl. 226-196.
- Cohen, Neal B., and K. Sotman, to Sperry Rand Corp. Self-locking quick-releasing hub. 3,124,319, 3-10-64, Cl. 242-68.3.
- Cohen, Neal B., and K. Sotman, to Sperry Rand Corp. Self-locking, quick-release hub. 3,154,262, 10-27-64, Cl. 242-68.3.
- Cohen, Oscar P., and J. F. Heaps, to Monsanto Chemical Co. Starch esters and process of preparing same. 3,127,362, 3-31-64, Cl. 260-17.4.
- Cohen, Paul H., J. W. Schwartz, and C. Pearl, to W. Ralston & Co. Dispenser for wrapping materials and package. 3,132,784, 5-12-64, Cl. 225-37.
- Cohen, Pierre, and R. Amavis, to Commissariat a l'Energie Atomique. Ion exchange. 3,128,247, 4-7-64, Cl. 210-37.
- Cohen, Robert J., to General Precision Inc. Digital radio active particle detector and control for accelerometer. 3,120,130, 2-4-64, Cl. 73-517.
- Cohen, Robert J., to General Precision Inc. Light weight, precision linear accelerometer. 3,133,446, 5-10-64, Cl. 73-517.
- Cohen, Robert J., to General Precision Inc. Gyroscope flex-lead connections. 3,154,952, 11-3-64, Cl. 74-5.
- Cohen, Robert J., to General Precision Inc. Spin motor monitor including a variable reluctance type pickup. 3,158,033, 11-24-64, Cl. 74-5.6.
- Cohen, Ronald: See—
- Watkins, Robert M., and Cohen. 3,125,474.
- Cohen, Saul M., and F. J. Kent, to Clinton Industries, Inc. Multiple needle thread trimmer. 3,139,849, 7-7-64, Cl. 112-252.
- Cohen, Werner V., to E. I. du Pont de Nemours and Co. Process for preparing polyfluoroalkylamines. 3,118,945, 1-21-64, Cl. 260-583.
- Cohen, Werner V., to E. I. du Pont de Nemours and Co. Fluoroalkoxy phthalides. 3,123,620, 3-3-64, Cl. 260-343.3.
- Cobler, Edmund U., and J. E. Monahan, to Sylvania Electric Products Inc. Switching circuit employing transistor utilizing minority-carrier storage effect to maintain transistor conducting between input pulses. 3,144,563, 8-11-64, Cl. 307-88.5.

- Cohler, Marilyn R.: See—
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- Cohn, Bernard, H. Lopetz, and J. N. Shah, to Technilith Inc. Method of making lithographic printing plates. 3,161,521, 12-15-64, Cl. 96-75.
- Cohn, Harold J. Coffee maker. 3,158,084, 11-24-64, Cl. 99-297.
- Cohn, Irving H., to Simmonds Precision Products, Inc. Capacity-type measuring system. 3,161,054, 12-15-64, Cl. 73-304.
- Cohn, Johann G. E., to Engelhart Industries, Inc. Method of removing nitrogen oxides from gases. 3,118,727, 1-21-64, Cl. 23-2.
- Cohn, Johann G. E., and A. J. Haley, Jr., to Engelhart Industries, Inc. Method of removing oxygen from gases. 3,124,416, 3-10-64, Cl. 23-2.
- Cohn, Max, to South River Metal Products Co. Inc. Wire packaging and handling device. 3,150,769, 9-29-64, Cl. 208-52.
- Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Method of treating magnesite. 3,127,242, 3-31-64, Cl. 23-201.
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- Cohnen, Walter: See—
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- Cohnen, Walther, and H. Klockgether, to Agfa Aktiengesellschaft. Foils and process for coating foils consisting of linear polycarbonates of high molecular weight with cellulose esters. 3,117,019, 1-7-64, Cl. 117-73.
- Cohron, Gerald T., to Nuttall Wilson Raymond Engineers, Inc. Instrument for measuring shearing stress-normal stress relationships of soils. 3,116,633, 1-7-64, Cl. 73-101.
- Cohrt, Eighl, and J. E. Scavinius, to International Standard Electric Corp. Transistorized supervisory circuit for transmission lines. 3,133,275, 5-12-64, Cl. 340-253.
- Colie, Benjamin F., to Textile Machine Works. Knitting machine and method of knitting fabric. 3,136,145, 6-9-64, Cl. 66-43.
- Colie, Benjamin F., to Textile Machine Works. Yarn severing mechanism for knitting machines. 3,157,036, 11-17-64, Cl. 66-140.
- Colin Acceptors, Inc.: See—
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- Colt, Burton C., Jr.: See—
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- Cokeley, Bruce J.: See—
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- Colacino, Achille. Dispenser for straws and similar articles having a reciprocable ejector. 3,130,866, 4-28-64, Cl. 221-274.
- Coladonato, Leo. Deer feet mounts. 3,119,589, 1-28-64, Cl. 248-159.
- Colalanni, Thomas. Brush cleaning device. 3,129,451, 4-21-64, Cl. 15-303.
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- Colautti, Albert J., and B. F. Meyer, to General Motors Corp. Vehicle closure. 3,145,988, 8-25-64, Cl. 268-3.
- Colbert, Charles R. Urban parking system. 3,136,431, 6-9-64, Cl. 214-16.1.
- Colbert, Earl F. Speed regulating attachment for tape recorders. 3,156,324, 11-10-64, Cl. 188-80.
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- Colburn, William H. Jr., M. A. Picciano, and T. C. Parker, to General Precision, Inc. Molybdenum trioxide-aluminum explosive and exploding bridgewire detonator therefor. 3,160,097, 12-8-64, Cl. 102-28.
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- Colby, Richard H., to United States of America, Army. Double, tandem-arranged magazine feeding device. 3,140,554, 7-14-64, Cl. 42-18.
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Cook, John F., to The McNeil Machine & Engineering Co. Control circuit for lubricating apparatus. 3,123,745, 3-3-64, Cl. 317—139.
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Cook, Melvin A., and H. E. Farnam, Jr., to Iron Ore Co. of Canada. Explosive composition comprising ammonium nitrate and heat-producing metal. Re. 25,695, 12-8-64, Cl. 149—21.
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Coonrad, Harry L., and J. N. Miale, to Socony Mobil Oil Co., Inc. Hydrocracking with reduced catalyst aging. 3,155,604, 11-3-64, Cl. 208—78.
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- Cooper, Ronald H., G. M. Corbett, and N. A. Noeske, to The Dow Chemical Co. Sand compositions for foundry cores and molds comprising alkali metal silicate binders and acrylamide polymer or water-soluble sulfonated alkenyl aromatic polymer additives, their preparation and use. 3,135,029, 6-2-64, Cl. 22-193.
- Cooper, Roy F., and H. Nyman, to Sargent Engineering Corp. Ball valve construction. 3,118,650, 1-21-64, Cl. 251-172.
- Cooper, Theodore W., to Hughes Aircraft Co. Bonding oxidized materials. 3,128,545, 4-14-64, Cl. 29-472.7.
- Cooper, Tinsley Laboratories, Inc.: See—
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- Cooper, Warner J.: See—
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- Cooper, Warren H. and G. M. Oil well circulation device. 3,129,762, 4-21-64, Cl. 166-117.
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- Cooperman, Michael, to Radio Corp. of America. Tunnel diode circuits. 3,142,770, 7-28-64, Cl. 307-88.5.
- Cooperman, Michael, to Radio Corp. of America. Solid state display device. 3,154,720, 10-27-64, Cl. 315-169.
- Cooperider, Myron T.: See—
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- Coopridr, Rex C., to The Drackett Co. Method of making and assembling a liquid dispenser. 3,154,615, 10-27-64, Cl. 264-242.
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- Cootes, Harold E., to AMP Inc. Strip-feeder subassembly. 3,154,234, 10-27-64, Cl. 226-64.
- Coover, Harry W., Jr.: See—
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- Coover, Harry W., Jr., to Eastman Kodak Co. Polymers prepared by reacting acrylonitrile and an unsaturated monomer in the presence of a preformed interpolymers of a vinyl pyridine and a comonomer. Re. 25,539, 3-24-64, Cl. 260-45.5.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Process for making polymers containing acrylonitrile and a vinyl pyridine. Re. 25,533, 3-10-64, Cl. 260-45.5.
- Coover, Harry W., Jr., M. A. McCall, and J. E. Gullett, to Eastman Kodak Co. Thermally modified polymers of polypropylene and other polymers and process for preparing the same. 3,121,070, 2-11-64, Cl. 260-45.5.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Four-component catalyst for polymerizing olefins containing a mixture of metals, a halogen, and amides. 3,140,277, 7-7-64, Cl. 260-93.7.
- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Process for producing reduced transition metal halides. 3,146,224, 8-25-64, Cl. 260-93.7.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Three-component alkyl aluminum halide catalysts for olefin polymerization and olefin polymerization process therewith. 3,147,240, 9-1-64, Cl. 260-93.7.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Process for producing crystalline polyolefins in the presence of an aluminum trialkyl transition metal halide, and an esterified polyhydric alcohol. 3,149,097, 9-15-64, Cl. 260-93.7.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Dyeable polypropylene fibers containing acrylate and methacrylate units in polymeric form. 3,156,743, 11-10-64, Cl. 260-897.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Four-component transition metal catalyst for polymerizing olefins. 3,161,627, 12-15-64, Cl. 260-93.7.
- Cope, Andrew P., to E. I. du Pont de Nemours and Co. Method and apparatus for heat treating filaments. 3,156,752, 11-10-64, Cl. 264-345.
- Cope, Appleton D., to Radio Corp. of America. Storage device having a photoconductive target. 3,136,909, 6-9-64, Cl. 313-65.
- Cope, George W.: See—
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- Cope, George W., to United States of America, Navy. Transducer coils energizing SCR gate circuit. 3,147,419, 9-1-64, Cl. 318-129.
- Cope, Paul E.: See—
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- Cope, Robert W.: See—
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- Copease Corp.: See—
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- Copeland, Frank S., to Minnesota Mining and Mfg. Co. Breathable surgical adhesive tapes. 3,121,021, 2-11-64, Cl. 117-122.
- Copeland, Jesse J., and J. H. Coe, to Hitchcock Transportation Co. Rotary spray head. 3,125,297, 3-17-64, Cl. 239-261.
- Copeland, John R., W. J. Robertson, C. H. Walter, and C. H. Boehnker, to Ohio State University Research Foundation. Antenna system. 3,162,855, 12-22-64, Cl. 343-100.
- Copeland, Lynn L., to Rubco Products. Underground seal for gas mains, etc. 3,141,478, 7-21-64, Cl. 138-97.
- Copeland Refrigeration Corp.: See—
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- Neubauer, Emil T., and Comstock. 3,144,982.
- Copeland, Roy D. Angle measuring and cutting device for tubular conduits. 3,130,496, 4-28-64, Cl. 35-21.
- Copeland, William O., to Radio Corp. of America. Pulse amplitude slicing circuit. 3,130,371, 4-21-64, Cl. 328-54.
- Copenhaver, James B. Command computer for use with free-rolling guided missiles. 3,150,824, 9-29-64, Cl. 235-78.
- Coper, Kurt, to The Daven Co. Insulated wire for high temperature use and coils made therefrom. 3,119,897, 1-28-64, Cl. 174-110.
- Copes, Joseph P.: See—
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- Coplan, Louis P., R. C. Rivers, and E. C. Miller, to Riley Stoker Corp. Burner. 3,145,670, 8-25-64, Cl. 110-28.
- Copithorne, Alton R., R. A. De Vita, B. W. Greene, G. J. Musial, J. R. Ioannelli, and R. G. Akery, to United Shoe Machinery Corp. Sewing machine driving and stopping mechanisms. 3,142,278, 7-28-64, Cl. 112-219.
- Coplands, Carl W., to Orthostance (Proprietary) Ltd. Compensating device for footwear. 3,133,544, 5-19-64, Cl. 128-611.
- Coplen, Lewis H., W. J. McCudden, G. N. Barker, R. O. Bathlany, and B. O. Hallberg, to Weyerhaeuser Co. Continuous veneer core, and method and apparatus for making the same. 3,135,644, 6-2-64, Cl. 161-101.
- Copley, David W. M. Dispenser having a resilient sponge and piston. 3,134,544, 5-26-64, Cl. 239-55.
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- Copony, Edward L., and R. R. Harr, to Symington Wayne Corp. Blending apparatus. 3,152,725, 10-13-64, Cl. 222-26.
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- Coppick, Sydney, to Scott Paper Co. Modified aminoplast resin foams and process of manufacture thereof. 3,125,621, 3-17-64, Cl. 264-321.
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- Coppola, James J., to Industrial Electronic Hardware Corp. Bowling ball accessory. 3,137,505, 6-16-64, Cl. 273-63.
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- Coppola, Patrick P., to North American Philips Co., Inc. Indirectly heated cathode. 3,160,780, 12-8-64, Cl. 313-346.
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- Corman, Julian, to Grain Processing Corp. Method of refining fungal enzyme preparations. 3,134,723, 5-26-64, Cl. 195-66.
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- Courtney, Albert L., to The Bendix Corp. Machine for forming laminations. 3,140,058, 7-7-64, Cl. 242-2.
- Courtney, Orley R. Articulated skid sled device. 3,123,375, 3-2-64, Cl. 280-16.
- Courtney, Welby G.: See—
Henderson, Ulysses V., Jr., and Courtney. 3,155,456.
- Courtney-Pratt, Jeffrey S., to American Optical Co. Cathode ray tube with composite multiple glass fibre face. 3,141,105, 7-14-64, Cl. 313-68.
- Courtney-Pratt, Jeffrey S., to Bell Telephone Laboratories, Inc. Electrostatic high voltage generators. 3,154,699, 10-27-64, Cl. 307-108.
- Courtois, Guy, and P. Le Clerc, to Commissariat a l'Energie Atomique. Radioactive sources. 3,145,181, 8-18-64, Cl. 252-301.1.
- Courtot, Louis B., and J. F. Norton, to The Weatherhead Co. Quick disconnect valved coupling. 3,159,180, 12-1-64, Cl. 137-614.06.
- Courtoux, Louis A. Litter. 3,159,417, 12-1-64, Cl. 294-16.
- Courtwright, Robert M., to Educators Mfg. Co. Cabinet wall panels and connecting means therefor. 3,159,440, 12-1-64, Cl. 312-263.
- Couster, Jacques, and M. Moutach, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Process for the purification of silicon. 3,148,131, 9-8-64, Cl. 204-130.
- Cousins, Edwin R.: See—
Turner, Huseyin V., and Cousins. 3,139,408.
- Cousins, Sydney. Foundation garment. 3,148,682, 9-15-64, Cl. 128-535.
- Cousseran, Pierre: See—
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- Couste, Pierre B., R. Trenteseaux, and J. Pallenecher. Hinged latch needle for knitting machines. 3,137,340, 6-16-64, Cl. 163-5.
- Cousteau, Jacques Y.: See—
Gagnan, Emile, and Cousteau. 3,144,171.
Gagnan, Emile, and Cousteau. 3,149,752.
- Cousteau, Jacques Y., E. Gagnan, and J. A. Allinat, to La Spirotechnique. Vessels having a collapsible bottom and inflatable surround. 3,131,406, 5-5-64, Cl. 9-11.

- Cousteau, Jacques Y., and E. Gagnan, to Spirotechnique, La. Mouthpiece for breathing apparatus. 3,147,752, 9-8-64, Cl. 128-147.
- Contant, Ralph E., and J. W. Clark, to General Electric Co. Drive mechanism. 3,133,452, 5-19-64, Cl. 74-421.
- Coutts, Morton W. Process for the manufacture of beer and the like. 3,117,005, 1-7-64, Cl. 99-52.
- Coutts, Morton W. Process for the production of fermented malt beverages. 3,157,583, 11-17-64, Cl. 195-14.
- Couture, Joseph W.: See—
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- Couture, Maurice J., D. L. Schindler, and R. B. Weiser, to E. I. du Pont de Nemours and Co. Copolymerization of tetrafluoroethylene and hexafluoropropylene. 3,132,124, 5-5-64, Cl. 260-87.7.
- Couzens, Reginald: See—
Young, Michael M. 3,122,305.
Young, Michael M. 3,152,749.
- Couzens, Reginald, to Diety Machine Works, Inc. Apparatus and method for winding and cutting sheets of web material. 3,123,315, 3-2-64, Cl. 242-56.
- Couzens, Reginald, and F. G. Glasby, to Robinson & Sons Ltd. Method and means for making spirally wound containers. 3,150,575, 9-29-64, Cl. 93-80.
- Covacevich, Nicolas. Back support and life preserver. 3,159,854, 12-8-64, Cl. 9-312.
- Coval, Arthur B.: See—
Lee, Arthur L., and Coval. 3,122,373.
Lee, Arthur L., and Coval. 3,155,197.
- Cover, Paul F.: See—
Cover, Ralph and P. F. 3,131,699.
- Cover, Paul W., to Xerox Corp. Image transfer. 3,157,546, 11-17-64, Cl. 156-231.
- Cover, Ralph. Corn husking machine. 3,158,156, 11-24-64, Cl. 130-5.
- Cover, Ralph and P. F. Corn cutting machine. 3,131,699, 5-5-64, Cl. 130-9.
- Cover, Ralph J., and G. R. Field. Method of freezing, packing and breadening shrimp and article resulting therefrom. 3,152,915, 10-13-64, Cl. 99-195.
- Covert, John N.: See—
Hale, Arthur N., and Covert. 3,140,682.
- Covert, Paul W., to Magnetics, Inc. Magnetic amplifier with shunt reset circuit. 3,138,753, 6-23-64, Cl. 323-89.
- Covey, John R., to Remington Arms Co., Inc. Roller crimping assembly. 3,138,056, 6-23-64, Cl. 86-39.
- Coviello, Joseph. Telephone-holding device. 3,130,276, 4-21-64, Cl. 179-157.
- Covington, John N., Jr. Means for handling and method of packaging shotgun shells and the like. 3,163,286, 12-29-64, Cl. 206-3.
- Covington, Loren C., to Titanium Metals Corp. of America. Liquid seal vacuum valve. 3,142,308, 7-28-64, Cl. 137-253.
- Cowan, John, to Automation Industries, Inc. Ultrasonic inspection apparatus. 3,121,324, 2-18-64, Cl. 73-67.5.
- Cowan, John C.: See—
Scholfield, Charles R., Cowan, and Friedrich. 3,119,850.
- Cowan, John V., to Automation Industries, Inc. Ultrasonic inspection apparatus. 3,130,577, 4-28-64, Cl. 73-67.5.
- Cowan, Morris, and R. Spalten. Dental paralleling apparatus. 3,152,401, 10-13-64, Cl. 32-67.
- Cowan, Zach S., Jr., to E. I. du Pont de Nemours and Co. Monohydroxy organic acid compounds for improving the properties of cement, concrete and mortars. 3,144,847, 8-11-64, Cl. 106-90.
- Cowden, Lewis M.: See—
Pelton, John F., and Cowden. 3,150,828.
- Cowe, Francis H., to Winchester Electronics, Inc. Electrical connector. 3,122,407, 2-25-64, Cl. 339-217.
- Cowgill, Frederic L., to Socony Mobil Oil Co., Inc. Valve testing apparatus. 3,147,611, 9-8-64, Cl. 73-4.
- Cowliard, Frederic C., and L. G. Penhale, to The Plessey Co. Ltd. Production of silicon with a predetermined impurity content. 3,155,621, 11-3-64, Cl. 252-62.3.
- Cowles Chemical Co.: See—
MacMullen, Clinton W., and Marzocchi. Re. 25,622.
- Cowles Dissolver Co., Inc.: See—
Brown, Donald J. 3,135,499.
- Cowles, John H.: See—
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- Cowles, John H., to The Torrington Co. Roller retainer for tapered bearings. 3,133,770, 5-19-64, Cl. 308-218.
- Cowles, John H., and C. F. Benson, to The Torrington Co. Unitary rupturable check valve. 3,116,747, 1-7-64, Cl. 137-68.
- Cowles, Raymond H.: See—
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- Cowles, Raymond H., to The H. O. Canfield, Co., Inc. Sealing gasket with magnet insert. 3,159,885, 12-8-64, Cl. 20-69.
- Cowles, Warren H.: See—
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- Cowles, Warren H., and J. E. Smith, to Holley Carburetor Co. Bypass valve with limited reset. 3,128,783, 4-14-64, Cl. 137-117.
- Cowley, Clement W.: See—
Rinfret, Arthur P., and Cowley. 3,158,283.
- Cowley, Clement W., and T. F. Stachowiak, to Union Carbide Corp. Container for the low temperature preservation of biological substances. 3,151,760, 10-6-64, Cl. 220-20.
- Cowley, John J. Liquid proportioning and mixing devices. 3,151,843, 10-6-64, Cl. 259-18.
- Cowley, William E., to Vermont American Corp. Plastic case for drills and the like. 3,154,192, 10-27-64, Cl. 206-17.
- Cowlshaw, Frank, to W. E. & F. Dobson, Ltd. Support of roofs in mines. 3,143,862, 8-11-64, Cl. 61-45.
- Cowman, George R., J. J. Douglass, and A. H. Holtzman, to E. I. du Pont de Nemours and Co. Explosive bonding. 3,137,937, 6-23-64, Cl. 29-486.
- Cowper, David R. Clothes drier. 3,146,890, 9-1-64, Cl. 211-86.
- Cox, Addis F.: See—
Pomerantz, Morton W., and Cox. 3,136,843.
- Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Wide angle lens attachment. 3,152,209, 10-6-64, Cl. 88-57.
- Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Wide angle lens attachment. 3,152,211, 10-6-64, Cl. 88-57.
- Cox, Bradley G., to Baker Perkins Inc. Closure for venaels. 3,127,051, 3-31-64, Cl. 220-55.
- Cox, Charles D.: See—
Vondersmith, Fletcher S., Cox, Raider, and Schoner. 3,137,741.
- Cox, Clyde M., and J. T. Cabbage, to Phillips Petroleum Co. Direct heat exchange control system. 3,119,445, 1-28-64, Cl. 165-32.
- Cox, Dale W.: See—
Fitch, William H., Rice, and Cox. 3,122,056.
- Cox, Darwin S. Method of producing improved vehicle wheels. 3,129,496, 4-21-64, Cl. 29-159.01.
- Cox, Darwin S. Process of manufacturing one piece brake drum shells. 3,129,505, 4-21-64, Cl. 29-534.
- Cox, David B., to Socony Mobil Oil Co., Inc. Lubricant. 3,155,618, 11-3-64, Cl. 252-39.
- Cox, David E.: See—
Rieger, John, Marchese, Cox, and Bradford. 3,148,710.
- Cox, Donald: See—
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- Cox, Earl W., and T. L. Heying, to Olin Mathieson Chemical Corp. Preparation of alkyl and alkenyl derivatives of reaction products of decaboranes and acetylenic compounds. 3,137,734, 6-16-64, Cl. 260-606.5.
- Cox, Edwin J. R.: See—
Conway, Ronald, Sterns, Abel and Cox. 3,148,311.
- Cox, Eugene F., D. T. Manning, and H. A. Stansbury, Jr., to Union Carbide Corp. Dicyanato tricyclodecane. 3,148,202, 9-8-64, Cl. 260-453.
- Cox, Everett F., to Whirlpool Corp. Water heater protected with thermoelectrically supplied energy. 3,135,678, 6-2-64, Cl. 204-196.
- Cox, Everett F., to Whirlpool Corp. Thermoelectric immersion cooler. 3,146,600, 9-1-64, Cl. 62-3.
- Cox, Frederic L. Camping trailers. 3,163,460, 12-29-64, Cl. 286-23.
- Cox, Frederic L. Boat trailer incorporating collapsible sleeping quarter. 3,144,150, 8-11-64, Cl. 214-505.
- Cox, George W.: See—
Waller, Robert W., and Cox. 3,120,656.
- Cox, Glenn L., to Westinghouse Electric Corp. Storage device. 3,124,715, 3-10-64, Cl. 315-10.
- Cox, Harold L., R. A. Chabot, and E. W. Strahorn. Equalizer for shear. 3,120,842, 2-11-64, Cl. 125-23.
- Cox, Herald R.: See—
Cabasso, Victor J., Cox, Moyer, and Roca-Garcia. 3,125,489.
- Cox, Herbert F., Jr., to Inland Container Corp. Fluid dispensing container. 3,117,695, 1-14-64, Cl. 222-105.
- Cox, Herbert F., Jr., to Inland Container Corp. Preformed wire tie. 3,128,515, 4-14-64, Cl. 24-30.5.
- Cox, James R., to Jersey Production Research Co. Circuit for driving a center tapped head winding. 3,163,804, 12-29-64, Cl. 317-148.5.
- Cox, Jay A., to Gulton Industries, Inc. Shielded transformer. 3,149,296, 9-15-64, Cl. 336-84.
- Cox, Jay A., to Gulton Industries, Inc. Shielded direct current amplifier. 3,156,859, 11-10-64, Cl. 321-8.
- Cox, Jerome R., Jr. Anti-collision device for aircraft. 3,159,832, 12-1-64, Cl. 343-7.5.
- Cox, John E.: See—
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- Hunt, Thomas W., and Cox. 3,122,606.
- Cox, L. M. Mfg. Co., Inc.: See—
Williams, Cole C. 3,132,716.
- Cox of Watford Ltd.: See—
Babbs, Frederick W. 3,140,896.
- Cox, Paul D., and W. A. Gas burner including gas and air mixing apparatus. 3,152,635, 10-13-64, Cl. 158-109.
- Cox, Raymond S.: See—
Poole, Burnet M., and Cox. 3,153,171.
- Cox, Rex E. Gravity flow distributor for granular material. 3,124,278, 3-10-64, Cl. 222-196.
- Cox, Richard W.: See—
Fassett, Gardner L., and Cox. 3,118,662.
- Cox, Robert E., to Deere & Co. Semiautomatic marker. 3,131,773, 5-5-64, Cl. 172-128.
- Cox, Robert J.: See—
Moore, Ralph G. D., and Cox. 3,134,675.
- Cox, Robert M.: See—
Gerwig, Harvey F., Cox, Floyd, and Collins. 3,117,585.
- Cox, Robert N.: See—
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- Cox, Robert P.: See—
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- Cox, Robert P., J. L. Wagner, and R. J. Sexe, to E. I. du Pont de Nemours and Co. Polyethylene adhesives. 3,117,100, 1-7-64, Cl. 260-23.7.
- Cox, Robert P., and J. P. Bailey, to Celanese Corp. of America. Bonding of thermoplastic materials. 3,138,509, 6-23-64, Cl. 156-336.
- Cox, Theodore W., to The Nevets Co. Inc. Window roller shade cover. 3,138,195, 6-23-64, Cl. 160-39.
- Cox, Thomas E. Damper position-retaining device. 3,122,163, 2-25-64, Cl. 137-527.8.
- Cox, William A.: See—
- Cox, Paul D. and W. A. 3,152,635.
- Cox, William E., and R. D. Alexander. Container for medals, ribbons, military insignia and the like. 3,134,484, 5-26-64, Cl. 206-45.14.
- Cox, William J. G., to Computing Devices of Canada Ltd. Resistance networks for stabilizing phase shift in resolvers and the like. 3,143,700, 8-4-64, Cl. 323-69.
- Coxe, Charles D., to Hanaly and Harmon. Hardening spring by internal oxidation. 3,117,894, 1-14-64, Cl. 148-11.5.
- Coy Mfg. Co.: See—
- Blomgren, Oscar C., and O. C. Blomgren, Jr. 3,139,834.
- Coyle, Forrest E., to United States of America, Navy. Means for making a transducer sound absorbing pad. 3,137,897, 6-23-64, Cl. 18-16.5.
- Coyle, Joseph E., to United States of America, Air Force. Vacuum cut-off switch. 3,140,819, 7-14-64, Cl. 230-18.
- Coyle, William E., to Gem Oil Tool Co., Inc. Well tubing scraper. 3,149,675, 9-22-64, Cl. 166-64.
- Coyne, Donald M., and O. L. Riggs, Jr., to Continental Oil Co. Condensation product of unsaturated diols and polyalkylene polyamines and method of preparation thereof. 3,152,187, 10-6-64, Cl. 260-584.
- Coyne, Francis H., Jr. Mail stacker. 3,144,985, 8-18-64, Cl. 232-24.
- Coyne, James C., to Bell Telephone Laboratories, Inc. Monitoring circuit. 3,127,595, 3-31-64, Cl. 340-267.
- Coyne, W. Carroll: See—
- St. Denny, Ralph B., and Brown. 3,127,165.
- Coyner, Eugene C., to E. I. du Pont de Nemours and Co. Process of using a masking coating of a telomer of tetrafluoroethylene. 3,139,352, 6-30-64, Cl. 117-5.5.
- Czand, Raymond B., and R. A. Miller, to Miller Swivel Products, Inc. Concrete dump bucket. 3,146,924, 9-1-64, Cl. 222-503.
- Czollino, Alfred R., to Union Bag-Camp Paper Corp. Display package. 3,135,384, 6-2-64, Cl. 206-80.
- Crabbe, Pierre: See—
- Bowers, Albert, and Crabbe. 3,153,065.
- Bowers, Albert, and Crabbe. 3,158,625.
- Crabtree, Gerald M. Device for aligning receptacle and wall switch cover plates. 3,123,918, 8-10-64, Cl. 33-207.
- Crabtree, Kenneth L., and C. R. Thomas, Jr., to Keyes Fibre Co., Inc. Special carton printing press. 3,122,994, 3-3-64, Cl. 101-35.
- Crabtree, Kenneth L., and D. E. Burt, to Keyes Fibre Co., Inc. Finishing apparatus for molded pulp paper items. 3,142,613, 7-28-64, Cl. 162-415.
- Crabtree, Leonard F.: See—
- MacKenzie, Louis G., Crabtree, and Cooper. 3,117,184.
- Crabtree, Leonard F., and P. A. Cooper, to Automatic Electric Laboratories, Inc. Airport multi-language announcing system. 3,153,121, 10-13-64, Cl. 179-6.
- Craddock, Michael J., and D. M. Shaw. Electrical testing equipment. 3,120,758, 2-11-64, Cl. 73-341.
- Craft, Thomas J., to Crawford Tool & Die Co. Wire feeding device. 3,128,028, 4-7-64, Cl. 226-151.
- Craft, Thomas J.: See—
- Craft, Thomas J. 3,128,028.
- Craft, John B. Collapsible boat. 3,139,634, 7-7-64, Cl. 9-2.
- Craft, Walter S. Ski towrope grip. 3,142,263, 7-28-64, Cl. 104-202.
- Crafton, David A.: See—
- Carlson, Carl O., Congleton, and Crafton. 3,134,297.
- Crafton, William W.: See—
- Miller, Jack M., Scott, Crafton, and Van Dyke. 3,122,869.
- Crafts, Cecil A., to Robertshaw-Fulton Controls Co. Phase shift keying communication system including automatic phase correction means. 3,119,964, 1-28-64, Cl. 323-30.
- Crafts, Cecil A., to Robertshaw Controls Co. Transmitter and receiver for phase modulated signals of the relative phase shift type. 3,157,740, 11-17-64, Cl. 178-66.
- Crafts, Cecil A., and M. D. McFarlane, to Robertshaw Controls Co. Single side band radio carrier retrieval system. 3,147,437, 9-1-64, Cl. 325-49.
- Crafts Tool and Gage Corp.: See—
- Hirshert, Richard A. 3,145,512.
- Cragoe, Edward J., Jr., to Merck & Co., Inc. Derivatives of pyrido[2,3-e,6,5-e']-bis[1,2,4]thiadiazine-1,1,9,9-tetra-oxide. 3,155,653, 11-3-64, Cl. 260-243.
- Cragstan Corp.: See—
- Risler, Robert. Re. 25,678.
- Craig, Arnold C., and L. G. S. Brooker, to Eastman Kodak Co. Merocyanines and undissociated cyanine dyes. 3,148,065, 9-8-64, Cl. 96-105.
- Craig, Bryant F., to Amalga Corp. Conelrad broadcast station control device. 3,124,749, 3-10-64, Cl. 325-64.
- Craig, Bryant F., and R. E. McCartney, to Amalga Corp. Conelrad warning device. 3,121,841, 2-18-64, Cl. 325-466.
- Craig, Bryant F., and R. E. McCartney, to Amalga Corp. Conelrad warning device. 3,122,705, 2-25-64, Cl. 325-466.
- Craig, Burnie J. Blade injection type razor. 3,140,541, 7-14-64, Cl. 30-62.
- Craig, Burnie J. Safety razor for receiving blades from a magazine. 3,140,542, 7-14-64, Cl. 30-62.
- Craig, Burnie M., to M. de Modena. Separating and counting apparatus. 3,133,624, 5-19-64, Cl. 198-40.
- Craig, David, and K. J. Goodrie. Pneumatic tire pressure differential sensing device. 3,158,706, 11-24-64, Cl. 200-61.22.
- Craig, Forrest F., Jr., H. Grekel, and K. L. Huijsak, to Pan American Petroleum Corp. Recovery of tars and heavy oils by gas extraction. 3,126,961, 3-31-64, Cl. 166-40.
- Craig, Forrest F., Jr., and K. L. Huijsak, to Pan American Petroleum Corp. Recovery of heavy oils by steam extraction. 3,155,160, 11-3-64, Cl. 166-40.
- Craig, Howard L., Jr., to Reynolds Metals Co. Composite aluminum material. 3,133,796, 5-19-64, Cl. 29-197.5.
- Craig, Hugh R. M.: See—
- Chalmers, Thomas M., Frankel, and Craig. 3,146,177.
- Craig, James C., to I-T-E Circuit Breaker Co. Spring-close high speed breaker. 3,158,714, 11-24-64, Cl. 200-106.
- Craig, James K., to Profexray, Inc. X-ray timer system to produce short duration radiation pulses. 3,130,312, 4-21-64, Cl. 250-95.
- Craig, James W.: See—
- Phelps, Morton E., and Craig. 3,136,091.
- Craig, James W., L. Hodnett, F. E. Lathe, deceased (by Toronto General Trusts Corp., now by merger Canada Permanent Toronto General Trust Co., executor), to Harbison-Walker Refractories Co. Spalling resistant periclase brick. 3,138,469, 6-23-64, Cl. 106-59.
- Craig, Louis E.: See—
- Horn, Robert C., Moffett, and Craig. 3,133,932.
- Weakley, Martin L., Moffett, and Craig. 3,119,865.
- Craig, Palmer H.: See—
- Khouri, Alfred S., Carroll, Craig, and Tedder. 3,124,073.
- Craig, Paul N., to Smith Kline & French Laboratories. 5-monoalkylaminopropyl-5H-dibenz-[b,f]-azepines. 3,126,373, 3-24-64, Cl. 260-239.
- Craig, Paul N., and C. L. Zirkle, to Smith Kline & French Laboratories. Substituted 1,1-diphenyl-4-(1-piperidyl)-butanol-1 derivatives. 3,128,278, 4-7-64, Cl. 260-294.
- Craig, Robert D., and E. Willdig, to Associated Electrical Industries Ltd. Mass spectrometer sample insertion devices. 3,158,740, 11-24-64, Cl. 250-41.9.
- Craig Systems, Inc.: See—
- Watt, Charles E., Jr., and Carson. 3,129,278.
- Weaver, John R., Jr., and Pierrat. 3,131,950.
- Craighead, Emory M.: See—
- Harvey, Robert R., and Craighead. 3,137,345.
- Craigie, David: See—
- Smith, Stanley F., Craigie, and Kennan. 3,146,584.
- Craigie, Cecil E.: See—
- Sutliff, John D., Craigie, and Rollins. 3,141,640.
- Craigie, Cecil E., H. A. James, and L. J. Hand, to The Ryan Aeronautical Co. Flexible wing aircraft. 3,140,842, 7-14-64, Cl. 244-46.
- Craigie, Helen E.: See—
- Craigie, John M., and H. E. 3,131,475.
- Craigie, John M., and H. E. Instrument for orienting the planes of occlusion. 3,131,475, 5-5-64, Cl. 32-19.
- Crain, Cullen M., and C. E. Williams, to United States of America, Navy. Wavemeter. 3,145,299, 8-18-64, Cl. 250-39.
- Crain, Donald L., and R. F. Kleinschmidt, to Phillips Petroleum Co. Isomerization of cyclooctadiene compounds. 3,124,621, 3-10-64, Cl. 260-666.
- Crain, Norman R., to General Electric Co. Synchronous timing circuit. 3,163,824, 12-29-64, Cl. 328-58.
- Crain, Philip, to Allen-Stevens Corp. Fastening device. 3,161,923, 12-22-64, Cl. 20-52.
- Crain, Robert E. Grip holder for pistols. 3,156,059, 11-10-64, Cl. 42-71.
- Crain, Robert L.: See—
- Watts, John D., Ireland, and Crain. 3,118,690.
- Crake, Wilfred S., to Shell Oil Co. Undergauge hole indicator. 3,145,784, 8-25-64, Cl. 175-40.
- Crake, Wilfred S., to Shell Oil Co. Well drilling assembly. 3,160,218, 12-8-64, Cl. 175-325.
- Cram, Ernest M., and N. G. Ball, to National Steel Corp. Apparatus for bend testing elongated specimens. 3,130,579, 4-28-64, Cl. 73-100.
- Cramer, Charles R., and W. F. L. de Bruijn. Organic tin compounds containing sulphur. 3,126,400, 3-24-64, Cl. 260-429.7.
- Cramer, Helen A. Bed pillow protector. 3,162,868, 12-29-64, Cl. 5-339.
- Cramer, Henry G., to C. T. Swenson. Continuous film processor. 3,149,551, 9-22-64, Cl. 95-94.
- Cramer, Irene: See—
- Barnes, Allie C. 3,142,347.
- Cramer, Leonard L. Method of imbedding hairs for wigs. 3,162,203, 12-22-64, Cl. 132-5.
- Cramer, Meredith L., and J. Floros, to Eriez Mfg. Co. Magnetic separator for removing traces of magnetic contamination from fluids. 3,139,403, 6-30-64, Cl. 210-222.
- Cramer, Robert H., R. D. Drew, and H. W. Shea, to Socony Mobil Oil Co., Inc. Erosion reduction. 3,140,992, 7-14-64, Cl. 208-120.

- Cramer, Robert H., S. C. Eastwood, and A. F. Houser, to Socony Mobil Oil Co., Inc. Manufacture of silica-zirconia-alumina catalyst. 3,140,250, 7-7-64, Cl. 208-120.
- Cramer, Robert L., to The Bendix Corp. Pressure control valve. Re. 25,508, 1-7-64, Cl. 128-1.
- Cramer, Ted H.: See—
- Messick, William E. 3,155,934.
- Cramer, Ted H., and T. M. Donigian, to Magna Corp. Electrical corrosion probe. 3,153,217, 10-13-64, Cl. 338-13.
- Cramer, Thomas F., to Holley Carburetor Co. Dashpot. 3,116,917, 1-7-64, Cl. 267-1.
- Cramer, Thomas F., to Holley Carburetor Co. Governor. 3,133,531, 5-19-64, Cl. 123-103.
- Cramer, William F., Jr.: See—
- Gross, George E., and Cramer. 3,123,651.
- Crampton, Donald K., to Chase Brass & Copper Co., Inc. Conversion of brass chips. 3,123,468, 3-3-64, Cl. 75-65.
- Cramton, Frank R., to E. B. & A. C. Whiting Co. Foamed polypropylene filaments. 3,118,161, 1-21-64, Cl. 15-159.
- Cran, William B. G., to Thomas Broadbent & Sons Ltd. Length measuring device for automatic folders. 3,162,765, 12-22-64, Cl. 250-223.
- Crandall, A. Ralph, and J. W. Alexander, to Phillips Petroleum Co. Polymer drying process and apparatus. 3,119,146, 1-28-64, Cl. 18-1.
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- Crandall, Roger L., to Bethlehem Steel Co. Method of coating metals. 3,149,987, 9-22-64, Cl. 117-5.5.
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- Bredtschneider, Kurt B. 3,130,742.
- Bredtschneider, Kurt B. 3,134,396.
- Bredtschneider, Kurt B., and Englert. 3,154,094.
- Britton, Harrison J. 3,132,837.
- Carr, Edward W., DeGraene, and Acosta. 3,122,160.
- Englert, Joseph A., and Bredtschneider. 3,131,719.
- Englert, Joseph A., Magos, and Bredtschneider. 3,149,847.
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- Hansen, George E., and Korzenowski. 3,158,377.
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- Hoyt, Kenneth C. 3,154,019.
- Kanter, Jerome J., Magos, and Meinhardt. 3,146,090.
- Leighton, Francis, and Herman. Re. 25,669.
- Lovelace, Charlie H. 3,124,153.
- Magos, John P. 3,135,284.
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- Schweitzer, Earl O. 3,132,472.
- Valdes, Thomas H., and Rinck. 3,156,751.
- Yates, James L. 3,118,197.
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- Crane, Edward J., to E. W. Bliss Co. Compacting press. 3,132,379, 5-12-64, Cl. 18-16.5.
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- Crane, George R.: See—
- Luckey, George R., and Crane. 3,145,942.
- Crane, Hewitt D., to Stanford Research Institute. Character recognition circuit. 3,145,367, 8-18-64, Cl. 340-146.3.
- Crane, Hewitt D., and W. K. MacCurdy, to AMP Inc. Magnetic-core shift register. 3,139,690, 6-30-64, Cl. 340-174.
- Crane, Jack P., to Gist Mfg. Co. Drill string shock absorbers. 3,156,106, 11-10-64, Cl. 64-27.
- Crane, Jack W., to Sperry Rand Corp. Hay pelletter. 3,144,840, 8-18-64, Cl. 107-14.
- Crane Packing Co.: See—
- Gould, Harold W. 3,120,394.
- Roshong, Raymond G. 3,161,996.
- Tankus, Harry. 3,162,452.
- Tankus, Harry, and Vorhees. 3,152,808.
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- Crane, Robert L.: See—
- Cleland, Charles E., and Crane. 3,117,036.
- Crane, Samuel P., and S. D. Kent, to Alpha Research Corp. Ventilating spacer and method. 3,133,852, 5-19-64, Cl. 161-119.
- Crane, Walton B., to Allied Plastics Co. Shipping container. 3,127,086, 3-31-64, Cl. 229-27.
- Crane, William B., and R. C. Parrish, to Riegel Textile Corp. Glove forming device having glove printing means incorporated therein. 3,124,066, 3-10-64, Cl. 101-44.
- Crankshaw, John H., and R. A. Lasley, to Baldwin-Lima-Hamilton Corp. Method for finishing tooth surfaces of misalignment couplings. 3,125,838, 3-24-64, Cl. 51-281.
- Cranston, Lawrence, to United States Rubber Co. Conveyor belt and wire fabric therefor. 3,154,459, 10-27-64, Cl. 161-91.
- Craske, William J., to Ellicott Brothers (London) Ltd. Dynamo electric machines. 3,132,269, 5-5-64, Cl. 310-111.
- Crass, Rosa A.: See—
- Koenig, Nathan H., and Crass. 3,145,074.
- Crast, Leonard B., Jr.: See—
- Perron, Yvon G., and Crast. 3,127,394.
- Crate, James H., to E. I. du Pont de Nemours and Co. Hinged cover container. 3,126,120, 3-24-64, Cl. 220-31.
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- Warner, Alden Y., Craven, and Stachert. 3,157,929.
- Cravener, Leon J. Lawn applicator for fertilizer and the like. 3,152,355, 10-13-64, Cl. 15-575.
- Craver, Augustus E., to FMC Corp. Manufacture of coated material. 3,136,654, 6-9-64, Cl. 117-119.8.
- Craver, Edward H., to Western Electric Co., Inc. Reciprocating linear feeder. 3,140,776, 7-14-64, Cl. 198-221.
- Craver, John K., to Monsanto Co. Modified polyester resins. 3,163,627, 12-29-64, Cl. 260-45.4.
- Cravits, Phillip, to Croname, Inc. Mixing valve unit. 3,154,101, 10-27-64, Cl. 137-604.
- Crawford, Augustus W., and E. G. Bolce, to Reed Roller Bit Co. Drill bit nozzles. 3,137,354, 6-16-64, Cl. 175-340.
- Crawford, C. A., to Hazeltine Research, Inc. Rapid component insertion apparatus. 3,126,549, 3-31-64, Cl. 1-321.
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- Eve, Leonard F. 3,135,521.
- Crawford, David J., to International Business Machines Corp. Memory array sensing. 3,142,049, 7-21-64, Cl. 340-174.
- Crawford, Ferrell E.: See—
- Boyer, Paul E., Mansfield, Crawford, and Lanier. 3,160,964.
- Crawford, Fred F., and A. H. Hanna, to Tung-Sol Electric Inc. High vacuum display device. 3,136,911, 6-9-64, Cl. 313-108.
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- Beck, Edward. 3,133,719.
- Cator, Edward J. 3,134,615.
- Crawford, George H., Jr., and D. E. Rice, to Minnesota Mining and Mfg. Co. Process for preparing trifluoronitrosalkane. 3,162,692, 12-22-64, Cl. 260-647.
- Crawford, Herman E., to Mopul, Inc. Self-supporting hosiery. 3,122,906, 3-2-64, Cl. 66-172.
- Crawford, Horace R., to The Western Co. of North America. Explosive charge assemblies. 3,162,121, 12-22-64, Cl. 102-24.
- Crawford, Irvin H., and W. J. Venor, to Eastman Kodak Co. Photographic paper treated with electron bombard chromic complexes. 3,117,865, 1-14-64, Cl. 96-85.
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- Watkins, George R., and Crawford. 3,136,647.
- Crawford Mfg. Co., Inc.: See—
- Antonovich, Michael. 3,132,495.
- Koch, Charles R. 3,163,468.
- Crawford, N. B., and E. A. Mills. Emergency braking device. 3,139,953, 7-7-64, Cl. 188-31.
- Crawford, Nelson C. Box gauge tool. 3,154,304, 10-27-64, Cl. 269-47.
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- Crawford, Samuel F., Jr., to Kaiser Aluminum & Chemical Corp. Process for the production of aragonite crystals. 3,120,426, 2-4-64, Cl. 23-66.
- Crawford, Wayland H., to Modern Village Stores, Inc. Check stand. 3,126,981, 3-31-64, Cl. 186-1.
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- Nourse, Jess H., and Crawford. 3,123,117.
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- Crawley, Carroll L.: See—
- Holt, Robert L., and Crawley. 3,150,202.
- Crawley, William P., to The Carborundum Co. Heat resistant fibrous products and method of making the same. 3,125,404, 3-17-64, Cl. 8-115.7.
- Crawshaw, Bernard W.: See—
- Cook, Sidney, and Crawshaw. 3,119,548.
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- Craycraft, Lester V., and E. E. Barilotti, to United States of America, Navy. Safety and arming monitoring device. 3,141,326, 7-21-64, Cl. 73-71.2.
- Crayton, Philip H., to Union Carbide Corp. Process for preparation of metal acylates. 3,162,660, 12-22-64, Cl. 260-414.

- Creager, John E., to General Motors Corp. Over center electrical flasher switch. 3,133,174, 5-12-64, Cl. 200-113.
- Cremer, Edgar M., Jr., and A. Hopengarten, to Philco Corp. Stereophonic sound reproducing apparatus for demodulating an FM stereo multiplexed signal or amplifying a signal from a phonograph pickup. 3,151,216, 9-29-64, Cl. 179-15.
- Crease, Pierre L., and E. E. Sutton, to Dominion Electric Corp. Cooking device. 3,159,094, 12-1-64, Cl. 99-340.
- Creasey, Raymond F., G. D. Walley, and F. G. Wilcox, to The English Electric Co. Ltd. Vertical take-off aircraft. 3,117,747, 1-14-64, Cl. 244-12.
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- Creed, Sherman H., and S. Puccinelli, to FMC Corp. Method of coring fruit. 3,117,605, 1-14-64, Cl. 146-238.
- Creed, Sherman H., and S. Caimma, to FMC Corp. Fruit splitting machine. 3,144,061, 8-11-64, Cl. 146-72.
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- Creedle, Fred W., N. N. Dohrn, and J. R. Wilhelm, to American Brake Shoe Co. Railroad car retarders. 3,125,185, 3-17-64, Cl. 188-62.
- Creedon, Joseph F. Automatic parking system. 3,131,820, 5-5-64, Cl. 214-16.1.
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- Crego, Donald F., and G. Leslecki, to Allis-Chalmers Mfg. Co. Pressure balanced seal. 3,127,181, 3-31-64, Cl. 277-3.
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- Cremer, Gottfried, and H. Behrens. Tunnel furnace arrangement. 3,129,933, 4-21-64, Cl. 263-28.
- Cremer, Gottfried, and H. Behrens. Method of heating tunnel kilns and a tunnel kiln for carrying the method into effect. 3,158,364, 11-24-64, Cl. 263-28.
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- Cremer, Walter, K. Kolks, W. Stanke, and G. Henseleit, deceased; A. T. Henseleit, sole heir, to Koppers Co. Inc. Door for byproduct horizontal coke oven. 3,162,584, 12-22-64, Cl. 202-248.
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- Cressman, Charles J., and V. J. Malinowski, to Philco Corp. Cooling system for electronic apparatus. 3,147,403, 9-1-64, Cl. 317-100.
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- Creswell, Clifford A., to The Arbee Corp. Drive belts. 3,154,960, 11-3-64, Cl. 74-233.
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- Criener, Harry E., to Ford Motor Co. Read head for magnetic surface recording. 3,124,660, 3-10-64, Cl. 179-100.2.
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- Cronheim, Richard B. Hard-boiled egg cutter. 3,145,743, 8-25-64, Cl. 146-2.
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- Cronin, Albert W., and T. R. McDonald, to Ingersoll-Rand Co. Method of resharpening cutter blades having a contoured cutting edge. 3,162,987, 12-29-64, Cl. 51-288.
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- Cronquist, Donald H., and R. C. Treeder, to International Business Machines Corp. Record eccentricity detector and centering arrangement for recording machines. 3,156,918, 11-10-64, Cl. 346-74.
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- Cropp, David L., C. C. Jordan, and R. W. Lingo, to Saegertown Glasseals, Inc. Machine for assembling electrical components. 3,128,529, 4-14-64, Cl. 29-25.2.
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- Cross, Charles K., S. Kairys, and M. C. Attwell, to Canada
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- Cruz, Edward S., and A. R. Yackel, to Lockheed Aircraft
Corp. Helicopter rotor system. 3,135,335, 6-2-64, Cl.
170-160.13.
- Cruz, Ruben A. Test board for electronic circuits. 3,145-
483, 8-25-64, Cl. 35-19.
- Cruzan, Robert C.: See—
Dworzan, Joseph S., and Cruzan. 3,134,262.
- Cruzan, Larry L., to Burroughs Corp. Stack height control
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- Crylor: See—
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- Menault, Jacques A. A. 3,122,412.
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- Stuchlik, Rene E. F., and Froger. 3,150,223.
- Cryogenic Engineering Co.: See—
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- Cryogenics, Inc.: See—
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- Hood, Charles B., Jr. 3,125,863.
- Crystal Ice & Cold Storage Co.: See—
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- Csaszar, Albert K., to The Pure Oil Co. Solvent injection
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oil recovery process. 3,163,214, 12-29-64, Cl. 166-9.
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Katona, Jeno. 3,125,932.
- Csorny, Zoltan L., and G. R. Harlow, to Norton Co. Appa-
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64, Cl. 25-1.

- Csicsatka, Antal, to General Electric Co. Circuitry for multiplex transmission of FM stereo signals with pilot signal. 3,122,610, 2-25-64, Cl. 179-15.
- Caillag, Istvan, to Associated Electrical Industries Ltd. Means for the discharge of liquid from rotors. 3,163,396, 12-29-64, Cl. 253-39.15.
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- Čtvrtník, Josef: See—
- Mayer, Jiri, Čtvrtník, and Nemeček. 3,123,616.
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- Cuba Specialty Mfg. Co., Inc.: See—
- Crouch, Lindsay B., and Taylor. 3,151,600.
- Cubbage, Henry D.: See—
- Leidy, Kenneth L., and Cubbage. 3,139,620.
- Cubberley, Mitchell H. Safety ski binding of the strap or long thigh harness type. 3,145,028, 8-18-64, Cl. 280-11.35.
- Cubberley, Richard H., and J. P. Orsulak, to The Flintkote Co. Emulsion coating composition. 3,155,528, 11-3-64, Cl. 106-278.
- Cubic Corp.: See—
- Ford, James R., and Bear. 3,140,487.
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- Zable, Walter J., Werner, and Thompson. 3,148,369.
- Cucarola, Joe F. Automatic bale ricker. 3,148,781, 9-15-64, Cl. 214-6.
- Cucksey, Edward L.: See—
- Du Bois, Edwin O., and Cucksey. 3,116,587.
- Cuckson, Eric E.: See—
- Jones, Arthur L., and Cuckson. 3,141,217.
- Cuckson, W. E., & Sons Proprietary Ltd.: See—
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- Cuculo, John A., to E. I. du Pont de Nemours and Co. Process of producing polycaprolactam monofilaments. 3,166,750, 11-10-64, Cl. 264-178.
- Cudaby, George F. Apparatus for compressing fluids. 3,149,773, 9-22-64, Cl. 230-56.
- Cuddihy, William F.: See—
- Gage, Robert M., Skinner, Cuddihy, and Sundstrom. 3,130,292.
- Cugini, John A., to Draper Corp. Positive feed for donning mechanism. 3,121,988, 2-25-64, Cl. 57-53.
- Culbertson, George T., to T. W. Hallberg. Time delay circuit. 3,125,707, 8-17-64, Cl. 317-142.
- Culbertson, George T., to D. M. Hallberg. Series operated relay alarm system. 3,128,457, 4-7-64, Cl. 340-213.1.
- Culbertson, George T., to T. W. Hallberg. Transistor timing device. 3,142,004, 7-21-64, Cl. 317-142.
- Culbertson, Harry M.: See—
- Tashlick, Irving, and Culbertson. 3,153,021.
- Culbertson, William J., Jr., and T. D. Nevens, to The Oil Shale Corp. Method for making cement. 3,127,455, 8-31-64, Cl. 263-53.
- Cull, Jay A., and T. Hooker, to Hooker Chemical Corp. Hydrogen halide recovery. 3,140,155, 7-7-64, Cl. 23-277.
- Cull, Neville L.: See—
- Aldridge, Clyde L., and Cull. 3,147,281.
- Cull, Neville L., and C. L. Aldridge, to Esso Research and Engineering Co. Preparation of high molecular weight oxygenated compounds. 3,118,948, 1-21-64, Cl. 260-604.
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- Cull, Neville L., and G. P. Hammer, to Esso Research and Engineering Co. Mixtures of resins from oxidized aromatic extracts and oxidized liquid diolefin polymers. 3,129,107, 4-14-64, Cl. 106-285.
- Cull, William, to Birmfield Engineering Ltd. Universal joints. 3,161,473, 10-6-64, Cl. 64-8.
- Cullen-Friedstedt Co.: See—
- Buchik, George, and Yu. 3,155,416.
- Kaplan, Louis G., Benes, and Yu. 3,153,555.
- Cullen, Roy H., and L. D. Richards; said Richards assor. to said Cullen. Method of manufacturing wrapped pressure hose. 3,136,113, 6-9-64, Cl. 57-160.
- Cullen, Willard R., and D. R. Milne, said Milne, assor. to said Cullen. Motorized time glass. 3,151,442, 10-6-64, Cl. 58-144.
- Culley, Jack R., to The Pillsbury Co. Inner can selling message. 3,154,237, 10-27-64, Cl. 229-51.
- Culligan, Inc.: See—
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- Mahlestedt, Donald A., and Hintz. 3,146,788.
- Schulze, Robert E., Jauch, and Kruckeberg. 3,119,522.
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- Cullin, Hugh J.: See—
- Dranetz, Abraham I., and Cullin. 3,148,290.
- Cullis, John, Jr., to Burroughs Corp. Counter circuit and driver therefor. 3,147,398, 9-1-64, Cl. 315-84.6.
- Cullo, Leonard A.: See—
- Witthof, John M., and Cullo. 3,154,603.
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- Culp, Herbert P., to Friend Mfg. Corp. Pesticide distributing apparatus with augmented air blast pattern. 3,161,812, 10-6-64, Cl. 239-78.
- Culp, Neil J., to The Carpenter Steel Co. Alloy steel. 3,136,665, 6-9-64, Cl. 148-36.
- Culpepper, Abner A. Device for effecting water-flow from a roof or the like. 3,141,955, 7-21-64, Cl. 219-213.
- Culpepper, Fred W., Jr., to Southern Illinois University Foundation. Educational device. 3,154,862, 11-3-64, Cl. 35-9.
- Culpepper, James L. Ventilated curtain. 3,160,199, 12-8-64, Cl. 160-130.
- Culpepper, John W., E. J. Stahnke, and A. L. Winkler; said Stahnke and Winkler assors. to Acme Steel Co. Strap dispenser. 3,162,394, 12-22-64, Cl. 242-78.6.
- Culver, Irven H., to Lockheed Aircraft Corp. Rotor. 3,135,334, 6-2-64, Cl. 170-160.13.
- Culver, Irven H., and H. C. Danielson, to Lockheed Aircraft Corp. Helicopter control linkage for automatic pitch and roll damping. 3,120,278, 2-4-64, Cl. 170-160.25.
- Culver, Laurence R.: See—
- Muniz, Roberto O., and Culver. 3,160,811.
- Culver, Leonard J., to Foster Wheeler Corp. Tube support arrangement. 3,163,155, 12-29-64, Cl. 122-510.
- Culver, Louis A. Unattended automobile washing and cleaning apparatus. 3,162,883, 12-29-64, Cl. 15-302.
- Culver, William H., to Pennsalt Chemicals Corp. Method for defolating and desiccating cotton. 3,130,035, 4-21-64, Cl. 71-2.2.
- Culver, William H., to Research Corp. Optical maser. 3,136,959, 6-9-64, Cl. 331-94.5.
- Cumberland Case Co.: See—
- Robinson, William W., Jr., and Camp. 3,144,001.
- Robinson, William W., Jr., and Camp. 3,157,273.
- Cumbers, Michael B., and E. R. Ribchester, to Hazeltine Research, Inc. Broad-band electric amplifier with plural outputs at different potential levels. 3,127,472, 3-31-64, Cl. 178-5.4.
- Cumming, William R., and E. F. Buckley, to Emerson & Cuming, Inc. Microwave reflector. 3,145,382, 8-18-64, Cl. 343-18.
- Cumming, James C.: See—
- House, Bryan E., and Cumming. 3,154,178.
- Cumming, James D. Tension indicating device. 3,133,468, 5-19-64, Cl. 85-62.
- Cumming, John, to G. S. Blakeslee & Co. Water level indicator. 3,127,902, 4-7-64, Cl. 134-113.
- Cumming, Ronald W.: See—
- Baxter, John R., Cumming, Fraser, and Lane. 3,152,316.
- Cummings, Anna L.: See—
- Cummings, Frank B. 3,133,573.
- Cummings, Carl M. Apparatus for attaching a strip to a sheet. 3,128,219, 4-7-64, Cl. 156-584.
- Cummings, Frank B., deceased; A. L. Cummings, executrix. Seed potato cutter with feed chain. 3,133,573, 5-19-64, Cl. 146-165.
- Cummings, Harold K.: See—
- Dinerstein, Samuel, and Cummings. 3,137,122.
- Cummings, Howard B., to Shenango China, Inc. Gloss setter. 3,137,910, 6-23-64, Cl. 25-153.
- Cummings, Robert E.: See—
- Tauschek, Max J., and Cummings. 3,1147,588.
- Cummings, Robert L., to Thompson Ramo Wooldridge Inc. Solar power plant. 3,152,260, 10-6-64, Cl. 290-52.
- Cummings, Robert L., to Dominion Containers Ltd. Egg carton. 3,152,747, 10-13-64, Cl. 229-28.
- Cummings, Roger M. Roller skate. 3,152,812, 10-13-64, Cl. 280-11.19.
- Cummins, Clessie L.: See—
- Cummins, Clessie L., Jr. 3,119,381.
- Cummins, Clessie L., Jr., and Clessie L. Cummins, Jr.; said Cummins, Jr. assor. to C. L. Cummins. Fuel injector. 3,131,866, 5-5-64, Cl. 239-90.
- Cummins, Clessie L., and Clessie L. Cummins, Jr.; said Cummins, Jr. assor. to C. L. Cummins. Fuel pump and distributing apparatus. 3,143,104, 8-4-64, Cl. 123-140.
- Cummins, Clessie L., Jr.: See—
- Cummins, Clessie L., and Clessie L. Cummins, Jr. 3,131,866.
- Cummins, Clessie L., and Clessie L. Cummins, Jr. 3,143,104.
- Cummins, Clessie L., Jr., to Clessie L. Cummins. Fuel-supply system. 3,119,381, 1-28-64, Cl. 123-140.
- Cummins, Curtis F., to Caterpillar Tractor Co. Sealing means for liquid cooled friction couplers. 3,136,389, 6-9-64, Cl. 188-72.
- Cummins-Chicago Corp.: See—
- Dreyer, William H. 3,119,295.
- Dreyer, William H., and Quinn. 3,131,857.
- Cummins, Earl W., to E. I. du Pont de Nemours and Co. Novel polymeric thiazidiazinethiones. 3,126,378, 3-24-64, Cl. 260-243.
- Cummins Engine Co., Inc.: See—
- Hergenrader, Wilmer J., and Colby. 3,144,055.
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- Schmidt, Robert C. 3,129,750.
- Schmidt, Robert C. 3,134,306.
- Cummins, George E.: See—
- Lowry, Harold D., and Cummins. 3,157,103.
- Cummins, Richard E., to International Business Machines Corp. Transducer positioning mechanism in a random access memory system. 3,156,906, 11-10-64, Cl. 340-174.1.
- Cumberland Case Co.: See—
- Robinson, William W., Jr., and Camp. 3,161,286.

- Cunetta, Joseph. Sewage treatment method and apparatus. 3,119,770, 1-28-64, Cl. 210-15.
- Cunha, Harold, and H. C. Hsieh, to Fairchild Camera and Instrument Corp. Pre-wetter. 3,137,306, 6-16-64, Cl. 134-46.
- Cunnen, James M., to Honeywell Inc. Two position visual display indicator. 3,162,849, 12-22-64, Cl. 340-373.
- Cunniff, Mark L. Slipper. 3,157,954, 11-24-64, Cl. 36-2.5.
- Cunningham, Arthur W. Safety mechanism for portable electric drills. 3,135,137, 6-2-64, Cl. 77-7.
- Cunningham, Arthur W. Indexing mechanism. 3,138,967, 6-30-64, Cl. 74-400.
- Cunningham, David R., L. E. Somers, J. D. Stone, and A. W. Hartman, to General Electric Co. Document recording systems. 3,141,394, 7-21-64, Cl. 95-1.7.
- Cunningham, Ervin L.: See—
- Campbell, Floyd R. 3,154,880.
- Cunningham, George L., to W. R. Grace & Co. Production of alkali metal fluoroborate. 3,119,654, 1-28-64, Cl. 23-59.
- Cunningham, James B. Cushioning device for underframes. 3,150,780, 9-29-64, Cl. 213-32.
- Cunningham, Joseph E., and J. L. Smith. Cotton harvester. 3,127,036, 3-31-64, Cl. 214-83.1.
- Cunningham, Leonard. Dart-like projectile with elongated tail of resilient, compressible material. 3,161,410, 12-15-64, Cl. 273-106.5.
- Cunningham, Paul M., and J. F. Beckerich, to Collins Radio Co. Meteorological satellite radar. 3,135,957, 6-2-64, Cl. 343-17.2.
- Cunningham, Paul M., and T. P. Kaufman, to Collins Radio Co. Iso-echo interference blanking with output a logarithmic function of radio frequency energy input. 3,160,816, 12-8-64, Cl. 325-475.
- Cunningham, Richard G.: See—
- Price, James R., and Cunningham. 3,160,657.
- Sprague, Stanley R., and Cunningham. 3,153,632.
- Cunningham, Robert A., to Hughes Tool Co. Bearing seal. 3,137,508, 6-16-64, Cl. 277-95.
- Cunningham, Wallace, to Winget Ltd. Mobile material mixers and agitators, particularly concrete mixers and agitators. 3,128,631, 4-14-64, Cl. 74-15.84.
- Cunningham, William, to Imperial Chemical Industries Ltd. Apparatus for cutting continuously extruded material. 3,125,500, 4-14-64, Cl. 18-12.
- Cuny, Robert, to Brown, Boveri & Cie. Aktiengesellschaft. Arrangement for indicating leakage between cooling systems of turbo-generators. 3,122,668, 2-25-64, Cl. 310-53.
- Cuny, Robert, to Brown, Boveri & Cie. Aktiengesellschaft. Shaft seal for gas-filled machine. 3,131,939, 5-5-64, Cl. 277-15.
- Cuozi, Concetta, to H. M. Plehn. Foundation garment. 3,153,416, 10-20-64, Cl. 128-528.
- Cupery, Martin E., R. P. Jackson, and W. H. Wright, to E. I. du Pont de Nemours and Co. Method of applying protective coatings to metals. 3,133,829, 5-19-64, Cl. 117-127.
- Cupolo, John: See—
- Underwood, Raymond L., and Cupolo. 3,154,166.
- Cupples, James L.: See—
- Tigrett, John B., and Cupples. 3,162,866.
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- Larsen, Burnham L., and B. J. 3,161,116.
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- Curci, Alfred. Disposable combination safety-razor and blade magazine. 3,137,940, 6-23-64, Cl. 30-40.
- Curelich, Joseph L. Swimming swan. 3,120,833, 2-11-64, Cl. 115-25.
- Curello, Charles: See—
- Nickerson, Basil S., and Curello. 3,132,611.
- Curfman, Ronald L., and R. W. Just, to Standard Oil Co. Tube puller. 3,149,412, 9-22-64, Cl. 29-202.
- Curlett, John: See—
- Gurries, Raymond A., and Curlett. 3,155,020.
- Curlett, John, and R. A. Gurries, to Gurries Mfg. Co. Automatic level control system for construction machines. 3,142,915, 8-4-64, Cl. 37-180.
- Curlett, John, and R. A. Gurries, to Gurries Mfg. Co. Automatic level control system for construction machines. 3,158,945, 12-1-64, Cl. 37-180.
- Curlett, John L. G.: See—
- Presnell, Frank G., and Curlett. Re. 25,512.
- Curme, Henry G., to Eastman Kodak Co. Thermoxerography. 3,161,529, 12-15-64, Cl. 117-17.5.
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- Sabol, Albert, Blaha, and Curosh. 3,126,340.
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- Curran Industries, Inc.: See—
- Eburn, William H., Jr., and Hamilton. 3,148,782.
- Curran, John R., to International Telephone and Telegraph Corp. Hydraulic system. 3,131,601, 5-5-64, Cl. 91-3.
- Curran, John V., Jr. Apparatus for bonding carpet edging. 3,134,693, 5-26-64, Cl. 118-4.
- Curran, Paul G. Sighting-in targets. 3,118,674, 1-21-64, Cl. 273-102.
- Currey, Charles H., A. C. L. Brown, D. W. Holbrook, G. K. Truesdale, and R. L. Freeman, to A. C. Nielsen Co. System for determining whether local stations are transmitting network programs. 3,143,705, 8-4-64, Cl. 325-31.
- Currey, Charles H., R. L. Freeman, D. W. Holbrook, and G. K. Truesdale, to A. C. Nielsen Co. System for determining the listening habits of wave signal receiver users. 3,148,245, 9-8-64, Cl. 179-2.
- Currie, Charles A.: See—
- Konrad, Erich H., and Currie. 3,163,500.
- Currie, Courtland B., to Minneapolis-Honeywell Regulator Co. Spring adjusting means for control devices. 3,141,389, 7-21-64, Cl. 92-95.
- Currie, Gerard, to General Precision, Inc. Analog to digital signal conversion. 3,145,376, 8-18-64, Cl. 340-347.
- Currie, Gerard, to General Precision, Inc. Signalling system. 3,145,380, 8-18-64, Cl. 343-6.5.
- Currie, Grover C. Envelope type packaging folder. 3,123,280, 3-3-64, Cl. 229-76.
- Currie, Grover C., and J. A. Cook, to Somerville Industries Ltd. Machine for setting up egg cartons and the like. 3,162,099, 12-22-64, Cl. 93-37.
- Currie, Lauchlin M., to American Instrument Co., Inc. Peristaltic pump. 3,140,666, 7-14-64, Cl. 103-149.
- Currie, Raymond R., to Pittsburgh Plate Glass Co. Method of bleaching cotton piece goods. 3,150,918, 9-29-64, Cl. 8-111.
- Curry, Byron V., Jr.: See—
- Bonkowski, Teofil L., and Curry. 3,134,485.
- Curry, Robert P., and J. C. Geedes, Jr., to Ethyl Corp. Phenol. 3,146,897, 9-1-64, Cl. 214-8.5.
- Curry, Truman M., to The Boeing Co. Multi-component internal strain gauge balance. 3,159,027, 12-1-64, Cl. 73-147.
- alkylation process. 3,133,974, 5-19-64, Cl. 260-624.
- Curtenius, Frederick B. Air film table. 3,141,706, 7-21-64, Cl. 302-29.
- Curtenius, Frederick B., and R. W. Polderman, to Kalamazoo Paper Co. Paper pile separating and stacking transfer apparatus. 3,146,897, 9-1-64, Cl. 214-8.5.
- Curth, Otto E., to IIT Research Institute. Pressure shut-off assembly. 3,146,789, 9-1-64, Cl. 137-461.
- Curth, Paul, to Louvre S.A. Cosmetic applicator with mirror. 3,159,183, 12-1-64, Cl. 132-79.
- Curtin, Frank M. Multiple reel magnetic tape transport. 3,143,311, 8-4-64, Cl. 242-55.11.
- Curtin-Hebert Co., Inc.: See—
- Hine, Louis J. 3,136,096.
- Olton, Dirck, Jr., and Fazio. 3,134,206.
- Curtin, Leo P., deceased; L. V. Curtin, executor. Process for cleaning textile fabrics. 3,126,555, 3-31-64, Cl. 8-149.1.
- Curtin, Leo P., deceased; L. V. Curtin, executor. Easily accessible vehicles. 3,136,576, 6-9-64, Cl. 296-44.
- Curtin, Leo V.: See—
- Curtin, Leo P. 3,126,555.
- Curtin, Leo P. 3,136,576.
- Curtin, William J., and P. Carbery. Pulsing device. 3,119,200, 1-28-64, Cl. 46-232.
- Curtis Automotive Devices, Inc.: See—
- Schlenker, Albert L. 3,129,718.
- Curtis, Adolph D. Multiple ham press. 3,155,030, 11-3-64, Cl. 100-194.
- Curtis, Charles H.: See—
- McCarty, James P., and Curtis. 3,117,734.
- McCarty, James P., and Curtis. 3,125,303.
- Curtis, Charles R., and R. R. Lau, to AMP Inc. Captive taper pin insertion tool. 3,135,147, 6-2-64, Cl. 81-52.35.
- Curtis, Clifford. Juice extractor for vegetables and fruits. 3,122,188, 2-25-64, Cl. 146-76.
- Curtis Companies, Inc.: See—
- Jones, Merlin K. 3,145,433.
- Curtis, Daniel L., to Litton Systems, Inc. Ionization and plasma acceleration apparatus. 3,159,966, 12-8-64, Cl. 60-35.5.
- Curtis Development & Mfg. Co.: See—
- Curtis, Herbert C., and Sande. 3,135,572.
- Curtis Dyna-Products Corp.: See—
- Curtis, Russell R. 3,151,454.
- Curtis-Electro Lighting, Inc.: See—
- Rueck, Edward P. 3,118,620.
- Henning, Donald S. 3,120,929.
- Curtis, Edgar V., and M. J. Stock rack and end gate. 3,148,912, 9-15-64, Cl. 296-50.
- Curtis, Ferris V., to General Motors Corp. Cooling passages in cast aluminum cylinder heads and blocks. 3,130,461, 4-28-64, Cl. 22-203.
- Curtis, Gene C. Automatic starting means for automobile engines and the like including a ball vacuum switch. 3,130,318, 4-21-64, Cl. 290-38.
- Curtis, Gerald R.: See—
- Price, John F., and Curtis. 3,161,821.
- Curtis, Glenn R., to Independent Grocers' Alliance Distributing Co. Method for handling meat products. 3,140,510, 7-14-64, Cl. 17-45.
- Curtis, Gordon W.: See—
- Wheelwright, Edward H., Bonness, McDonald, and Curtis. 3,120,183.
- Curtis, Helene, Industries, Inc.: See—
- Grant, Samuel. 3,143,476.
- Curtis, Henry T. Carton. 3,118,533, 1-21-64, Cl. 206-45.32.
- Curtis, Herbert C., and A. Sande, to Curtis Development & Mfg. Co. Electric terminal mounting. 3,135,572, 6-2-64, Cl. 339-198.

- Curtis, John C., to Joy Mfg. Co. Drilling device. 3,162,253, 12-22-64, Cl. 173-147.
- Curtis, John C., D. G. Hanefeld, and W. D. Fish, to Joy Mfg. Co. Rockdrill jib and drill feed with pneumatic stinger bar. 3,137,353, 6-16-64, Cl. 175-57.
- Curtis, John E.: See—
Nickerson, Mortimer H., Schnitzer, Curtis, and Patterson. 3,129,191.
- Curtis, John L., E. H. Morris, and A. C. Walker, to Dowty Rotol Ltd. Aircraft control apparatus. 3,120,362, 2-4-64, Cl. 244-52.
- Curtis, Joseph. Wrecking car attachment. 3,137,401, 6-16-64, Cl. 214-86.
- Curtis Mfg. Co.: See—
Rybak, Frank J., and Hawley. 3,152,502.
- Curtis & Marble Machine Co.: See—
Bell, Charles C., and Davidson. 3,119,167.
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- Curtis, Mildred J.: See—
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- Curtis, Myron S., and H. Schoepe, to The Warner & Swasey Co. Machine tool. 3,124,985, 3-17-64, Cl. 82-2.
- Curtis 1000, Inc.: See—
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- Curtis Publishing Co., The: See—
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- Curtis, Reid H.: See—
Mohler, Robert D., Curtis, and Williams. 3,162,821.
- Curtis, Richard P.: See—
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- Curtis, Russell R., to Curtis Dyna-Products Corp. Starting and fuel system for pulse jet devices. 3,151,454, 10-6-64, Cl. 60-39.77.
- Curtis-Scott Co.: See—
Curtis, William B. 3,130,729.
- Curtis, Vernie W., 1/2 to W. L. Curtis. Manually maneuverable row crop sprayer. 3,153,509, 10-20-64, Cl. 239-172.
- Curtis, Walter L.: See—
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- Curtis, William B., to Curtis-Scott Co. Surgical needle threader. 3,130,729, 4-28-64, Cl. 128-339.
- Curtiss, Alan F., to Continental Can Co., Inc. Welded ball ear with segmented flange. 3,158,285, 11-24-64, Cl. 220-91.
- Curtiss, Charles J.: See—
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- Curtiss, Donald N., to United States Rubber Co. Apparatus for making elastomeric sheet stock. 3,142,091, 7-28-64, Cl. 18-12.
- Curtiss-Wright Corp.: See—
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- Curwen, Peter W., to Mechanical Technology Inc. Resonant piston compressor. 3,156,405, 11-10-64, Cl. 230-55.
- Cushing, Donald S., to General Electric Co. Article washing and drying machine having reversing single-phase induction motor. 3,134,385, 5-26-64, Cl. 134-58.
- Cushing, George B., and C. G. Lentjes, to Westinghouse Electric Corp. Sectioned molded insulating extinguishing unit for circuit interrupter with sections secured together by hot-wire technique. 3,160,728, 12-8-64, Cl. 200-150.
- Cushing, Ira B., to Abbott Laboratories. N-succinyl heparin and process. 3,118,816, 1-21-64, Cl. 167-74.
- Cushing, Merchant L.: See—
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- Cushing, Merchant L., to A. E. Staley Mfg. Co. Modification of starch with N,N'-methylene bisacrylamide, N-methylol acrylamide, or acrylamide and formaldehyde. 3,135,738, 6-2-64, Cl. 260-233.3.
- Cushing, William J. Playerpiano system with replay and cut-off features. 3,117,481, 1-14-64, Cl. 84-19.
- Cushman Chuck Co., The: See—
Galler, Edward A. 3,129,950.
- Cushman, Robert W., A. Nazareth, Jr., and W. H. Howe, to The Foxboro Co. Magnetic flowmeter apparatus. 3,131,560, 5-5-64, Cl. 73-194.
- Cushman, Walton W. Suction lift means for industrial lift trucks. Re. 25,519, 2-4-64, Cl. 214-651.
- Cushman, Walton W. Sustaining airfoils having variable configurations to vary lift characteristics. 3,158,338, 11-24-64, Cl. 244-44.
- Cushner, Stanton H.: See—
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- Cusic, John W.: See—
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- Cusic, John W., to G. D. Searle & Co. N-(alkanoyl-piperidinyl)-10,11-dihydro-5H-dibenz [b,f] azepines. 3,123,410, 3-3-64, Cl. 260-294.7.
- Cusic, John W., to G. D. Searle & Co. Ether derivatives of N-benzhydryl-N'-dihydroxypropylpiperazines and homopiperazines. 3,133,925, 5-19-64, Cl. 260-268.
- Cusic, John W., to G. D. Searle & Co. 1-dialkylaminoalkyl-5-diphenylmethyl-1H-tetrazoles and related compounds. 3,155,666, 11-3-64, Cl. 260-268.
- Cusic, John W., and H. S. Lowrie, to G. D. Searle & Co. N-(chlorophenyl)-N-phenyl-N'-2'-(hydroxy lower alkyl)-piperidinyl-ethyl ureas. 3,140,286, 7-7-64, Cl. 260-268.
- Cusic, John W., and H. W. Sause, to G. D. Searle & Co. 2-acetyl-10-carbamoylpiperidinylalkylpiperothiazines and process. 3,155,652, 11-3-64, Cl. 260-243.
- Cusic, John W., and P. Yonan, to G. D. Searle & Co. 1-carbalkoxy-4-(9-xanthenyl)piperazines and related compounds. 3,157,658, 11-17-64, Cl. 260-268.
- Cusic, John W., and E. F. Levon, to G. D. Searle & Co. 1-benzhydryl-4-(alkyl and aralkyl) aminopiperazines. 3,159,635, 12-1-64, Cl. 260-268.
- Custace, Arthur C., and O. Z. Roy, to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence. Method for determining sweat rate. 3,139,085, 6-30-64, Cl. 128-2.
- Custard, George H., to United States of America, Army. Projectile. 3,120,809, 2-11-64, Cl. 102-66.
- Custer Channel Wing Corp.: See—
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- Custer, Willard R., to Custer Channel Wing Corp. Aircraft channel wing propeller combination. 3,123,321, 3-3-64, Cl. 244-12.
- Custers, Jan F. H. B. W. Senior, H. B. Dyer, and P. T. Wedepohl, to Adamant Laboratories (Proprietary) Ltd. Synthesis of diamonds. 3,124,422, 3-10-64, Cl. 23-209.1.
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- Cutala, Alfred, F. M. Demer, and M. J. Kelly, to International Business Machines Corp. Magnetic data transferring device. 3,146,455, 8-25-64, Cl. 346-74.
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- Cuthbert, Charles H., and W. R. Wright, Jr., to Allied Chemical Corp. Process for drying pebbled ammonium nitrate. 3,127,249, 3-31-64, Cl. 23-302.
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- Cutler, Burton: See—
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- Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Polarization measurement for determination of the attitude of satellite vehicles. 3,137,853, 6-16-64, Cl. 343-100.
- Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Ring focus antenna feed. 3,162,858, 12-22-64, Cl. 343-753.
- Cutler, Clarence M., and Q. D. Dobras, to General Electric Co. Fluorescent panel lamp louver. 3,152,277, 10-6-64, Cl. 313-108.
- Cutler, Frank A., Jr., to Merck & Co., Inc. 6-chloro pregnenes and process for producing same. 3,136,792, 6-9-64, Cl. 260-397.47.

- Cutler-Hammer, Inc.: See—
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- Cutler, Leon H., to General Electric Co. Fastener for securing a switch to a panel. 3,119,909, 1-28-64, Cl. 200-61.82.
- Cutler, Leon H., to General Electric Co. Flow control device. 3,138,177, 6-23-64, Cl. 138-46.
- Cutler, Leon H., to General Electric Co. Pilot controlled valve. 3,140,727, 7-14-64, Cl. 137-606.
- Cutler, Leonard S., and D. L. Hammond, to Hewlett-Packard Co. Crystal mount. 3,159,757, 12-1-64, Cl. 310-9.1.
- Cutler, Royal A., to Sterling Drug Inc. Process for preparing 2,4-diamino-6-(H)-1,3,5-triazine. 3,144,453, 8-11-64, Cl. 260-249.9.
- Cutler, Royal A., to Sterling Drug Inc. 2-sulfanilamido-4-phenoxy-1,3,5-triazine. 3,140,229, 8-25-64, Cl. 260-239.7.
- Cutler, Royal A., and J. S. Buck, deceased, by P. G. Buck. Executrix, to Sterling Drug Inc. 4-(hydroxy and alkoxy)-7-indanoylalkanoic acids. 3,121,740, 2-18-64, Cl. 260-520.
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- Cutter Laboratories, Inc.: See—
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- Cutter Mail Chute Co.: See—
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- Cutukovic, Ivan M., to Velsicol Chemical Corp. 1,3-di-(p-cyclopenten-2-yl-phenoxy)-propanol-2. 3,118,953, 1-21-64, Cl. 260-613.
- Cuzzone, Raymon, and J. R. Harvey, to General Electric Co. Brace for finned tubes. 3,163,208, 12-29-64, Cl. 165-69.
- Cwyczynshyn, Walter, and W. E. Rise, to General Motors Corp. Article feeding apparatus for inspection equipment. 3,135,385, 6-2-64, Cl. 209-112.
- Cygnor, John E., to United Aircraft Corp. Dynamic seal improvement. 3,131,641, 5-5-64, Cl. 103-103.
- Cymara, Hermann K. Silage distributor. 3,158,407, 11-24-64, Cl. 302-60.
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- Cypher, James H., and C. E. Valchar, to Pittsburgh Plate Glass Co. Bending glass sheets. 3,148,968, 9-15-64, Cl. 65-106.
- Cyphers, Elmer B., to Esso Research and Engineering Co. Sols of metal dialkyl dithiophosphates. 3,155,615, 11-3-64, Cl. 252-32.7.
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- Cypser, Rudolph J., R. C. Hopkins, B. Housman, R. C. Jeffrey, and D. C. Ross, to Massachusetts Institute of Technology. Control equipment. 3,162,839, 12-22-64, Cl. 340-172.5.
- Cywinski, Norbert F., to Phillips Petroleum Co. Production of olefins from aldehydes and acetylenes. 3,124,622, 3-10-64, Cl. 260-682.
- Czyer, Bernard. Toothbrush with shuttlingly oscillatingly and rotatably movable cleaning and massaging elements. 3,129,449, 4-21-64, Cl. 15-28.
- Czaja, Julius. Ice skates having heated blades. 3,119,921, 1-28-64, Cl. 219-19.
- Czajkowski, Henry J. Sweeper attachment for cotton picking machines. 3,135,082, 6-2-64, Cl. 56-28.
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- Czaplewski, Joseph S. Metal barrel for drum top cutter. 3,161,952, 12-22-64, Cl. 30-4.
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- Czerwinka, Gerhard, to Focke-Wulf Gesellschaft mit beschränkter. Jetson tanks for aircraft. 3,161,384, 12-15-64, Cl. 244-118.
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- Dabanian, Karnig H., and W. H. Kirk. Adjustable air gauging mandrel. 3,154,939, 11-3-64, Cl. 73-37.9.
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- Dabroski, Winifred C., and R. F. Herr, to Johnson & Johnson. Apparatus for treating paper webs. 3,131,118, 4-28-64, Cl. 162-361.
- Dacey, George C., and R. L. Wallace, Jr., to Bell Telephone Laboratories, Inc. Fabrication of low impedance diode structures. 3,145,454, 8-25-64, Cl. 29-155.5.
- Daco Rubber, Inc.: See—
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- Dacons, Joseph C.: See—
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- Da Costa, Harry, to Motorola, Inc. Mounting and connection system for semiconductor devices. 3,153,751, 10-20-64, Cl. 317-234.
- Da Costa, Harry, and D. W. Williams, to Motorola, Inc. Method of supplying wire for mounting in electronic units. 3,159,188, 12-1-64, Cl. 140-92.2.
- Dadd, Morris V., to John Products, Inc. Rocker arm oil control means. 3,128,749, 4-14-64, Cl. 123-90.
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- Dadmun, Donald C.: See—
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- Dadswell, Cyril J., and G. D. Whitehouse, to English Steel Corp. Ltd. Automatic couplers for rail vehicles. 3,123,228, 3-3-64, Cl. 218-100.
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- Daeniker, Hans U., to Ciba Corp. New sulfonamides. 3,136,787, 6-9-64, Cl. 260-348.
- Daenzer, Howard J., to General Motors Corp. Counterbalanced hinge. 3,153,257, 10-20-64, Cl. 16-128.1.
- Daffer, George H., to Rensar, Inc. Aircraft landing gear. 3,128,971, 4-14-64, Cl. 244-104.
- Daffer, George H., to Rensar, Inc. Flotation hull. 3,139,635, 7-7-64, Cl. 9-6.
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- Pridgeon, Clifford W., Gustafson, Lund, and Huttner. 3,157,295.
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- Dagne, Louis C., to United States of America, Navy. Pyrophoric ignition injection system. 3,135,092, 6-2-64, Cl. 80-39.45.
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- D'Agostino, Nunzio L.: See—
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- Dahl, Carl P., to Borg-Warner Corp. Pressure loaded pumps. 3,137,239, 6-16-64, Cl. 103-126.
- Dahl, Elmar S., and J. M. Whalen, to Borg-Warner Corp. Fuel injection control mechanism. 3,128,751, 4-14-64, Cl. 123-140.
- Dahl, Erik, S. Okstad, and H. Skretting, to Elektrokemisk A/S. Process of producing metals from metal oxides. 3,156,557, 11-10-64, Cl. 75-4.
- Dahl, Henry A.: See—
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- Dahl, Henry L. Steerable toboggan. 3,147,020, 9-1-64, Cl. 280-18.
- Dahl, James J.: See—
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- Dahlberg, Harold S., and F. R. Quinn, to Bigelow-Sanford, Inc. Carpet or floor tiles. 3,120,083, 2-4-64, Cl. 50-413.
- Dahlberg, Reinhard, to Clevite Corp. Protective polyindene and terphenephene coatings for semiconductors and method. 3,128,203, 4-7-64, Cl. 117-201.
- Dahlberg, Reinhard, to Clevite Corp. Method of fabricating laminar semiconductor devices. 3,151,007, 9-29-64, Cl. 148-177.
- Dahlberg, Robert S., to Philco Corp. Two stage transistor amplifier with broad-band gain-equalizing feedback. 3,124,759, 3-10-64, Cl. 330-19.
- Dahle, Charles J. Hydrojet power unit for boats with power reverse propulsion. 3,116,602, 1-7-64, Cl. 60-35.54.
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- Dahlgren, John V. S., to The Wilcoator Co. Expandable power element. 3,117,497, 1-14-64, Cl. 92-91.
- Dahlgren, Lennart G. O., to F. V. Hasselblad. Film feeding mechanisms for roll film cameras. 3,128,687, 4-14-64, Cl. 95-34.
- Dahlin, Curt V.: See—
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- Dahlin, Erik B., to Honeywell Inc. Low noise electronic differentiator. 3,159,741, 12-1-64, Cl. 235-183.
- Dahlin, Harold C., to K. R. Franzer. Snap action switch. 3,120,590, 2-4-64, Cl. 200-67.
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- Dahlstrand, Josef Y., Jr.: See—
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- Dahlstrom, Harry E., to Amerock Corp. Device for counterbalancing window sashes. 3,146,488, 9-1-64, Cl. 16-198.
- Dahlstrom, Robert V., to Eli Lilly and Co. Pertussis antigen. 3,141,824, 7-21-64, Cl. 167-78.
- Dahn, Werner K.: See—
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- Dahme, Jerome R., to Sperry Rand Corp. Dynamic data storage device employing triggered silicon controlled rectifier for storing. 3,132,264, 5-5-64, Cl. 307-88.5.
- Dahmlos, Johannes, to Wasag-Chemie AG. Process for the preparation of chlorofluoro derivatives of methane. 3,146,276, 8-25-64, Cl. 260-653.8.
- Dahms, Francis A., to Emhart Mfg. Co. Bacon slicer having automatic feed adjustment. 3,144,893, 8-18-64, Cl. 146-93.
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- Dahn, Raymond C., Jr., M. J. Langan, and V. E. Meyer, to General Electric Co. Apparatus and method for introducing additives to an extruder. 3,155,750, 11-3-64, Cl. 264-40.
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- D'Andrea, Angelo R.: See—
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- Fried, Louis, D'Andrea, and Browning. 3,142,411.
- Dane, Ernest B., Jr., to Massachusetts Institute of Technology. Gyroscope spin axis bearings. 3,142,182, 7-28-64, Cl. 74-5.
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- Danef, Preston E., to Champion Papers Inc. Apparatus for inspecting a moving web. 3,135,867, 6-2-64, Cl. 250-219.
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- Danesi, Paul P., to International Telephone and Telegraph Corp. Electrical terminal connector. 3,140,909, 7-14-64, Cl. 339-249.
- Danetz, Abraham I., A. W. Orlaachio, and H. W. Erichsen, to Gulton Industries, Inc. Self-calibrating accelerometer. 3,120,622, 2-4-64, Cl. 310-8.4.

- Danford, Tiras J., and J. J. Harrington. Tobacco rack. 3,143,370, 8-4-64, Cl. 294-5.5.
- Danforth, Donald W., to John W. Bolton & Sons, Inc. Apparatus for refining paper stock. 3,144,994, 8-18-64, Cl. 241-260.
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- D'Angelo, Vito, N. L. Gordon, and J. Blaufarb, to Vaporec, Inc. Dry cleaning apparatus with solvent recovery. 3,134,652, 5-26-64, Cl. 34-77.
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- Dango, Bernhard: See—
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- Danl, Morris M. Multi-compartment vehicle tire. 3,161,219, 12-15-64, Cl. 152-339.
- Daniel, David W.: See—
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- Daniel, Hermann F., and W. F. W. Niem, to Union Special Maschinenfabrik G.m.b.H. Thread chain severing device for sewing machines. 3,143,987, 8-11-64, Cl. 112-252.
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- Daniel, William C. Lift dolly. 3,155,255, 11-3-64, Cl. 214-370.
- Daniel, William H. Animal shelter. 3,147,736, 9-8-64, Cl. 118-19.
- Daniels, Edward N. Alarm systems. 3,147,468, 9-1-64, Cl. 340-274.
- Daniele, Sante, to Wayne Italiana S.p.A. Variable price computing device for a multiproduct dispenser. 3,122,312, 2-25-64, Cl. 235-61.
- Daniell, John A.: See—
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- Daniels, Charles A., W. M. Schul, and W. B. Buck, to Phillips Petroleum Co. Conduit with corrosion resistant liner. 3,125,124, 3-17-64, Cl. 138-141.
- Daniels, Charles J., T. A. Smith, and F. A. Harbin, to All American Engineering Co. Hand measuring means for fitting mechanical hands to patients. 3,159,923, 12-8-64, Cl. 33-174.
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- Daniels, Dennis, to Houdaille Industries, Inc. Knock out structure. 3,152,715, 10-13-64, Cl. 220-27.
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- Daniels, Farrington, and T. Finkelstein, to Wisconsin Alumni Research Foundation. Thermodynamic reciprocating apparatus. 3,117,414, 1-14-64, Cl. 60-24.
- Daniels, Gilbert S., to The Seam Instrument Corp. Variable monitoring and recording system. 3,142,820, 7-28-64, Cl. 340-172.5.
- Daniels, Neale J. Dump bed for pickup trucks. 3,147,999, 9-8-64, Cl. 298-15.
- Daniels, Wilbert P.: See—
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- Daniels, William B., to Union Carbide Corp. Apparatus for subjecting matter to ultra-high pressure. 3,137,896, 6-23-64, Cl. 18-16.5.
- Danielsen, Daniel, and S. R. Judlowe, to Bell Telephone Laboratories, Inc. Pulse sequence verifier circuit with digital logic gates for detecting errors in magnetic recording circuits. 3,148,334, 9-8-64, Cl. 328-92.
- Danielson, Andrew L. Collapsible step bench. 3,142,355, 7-28-64, Cl. 182-106.
- Danielson, Donald A.: See—
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- Danielson, Gilbert L., F. C. Futral, and W. D. Shipp. Pipe patch. 3,150,690, 9-29-64, Cl. 138-99.
- Danielson, Glen. Combination table and bench. 3,138,403, 6-23-64, Cl. 297-174.
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- Danielson, Irvin S.: See—
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- Dankert, Henry C. Match pack and cover for a cigarette package. 3,160,272, 12-8-64, Cl. 206-48.
- Dankert, Lester J., and D. A. Permoda, to The Dow Chemical Co. Preparation of 2-substituted cyclohexanones. 3,124,614, 3-10-64, Cl. 260-586.
- Danko, Daniel A. Nozzle device. 3,157,348, 11-17-64, Cl. 239-316.
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- Danko, Nicholas S., J. A. Shaw, and J. T. McCall, to International Pipe and Ceramics Corp. Means for harnessing pipe joints. 3,129,961, 4-21-64, Cl. 285-230.
- Danko, John A., and T. B. Hurst, to The Babcock & Wilcox Co. Steam generator. 3,153,402, 10-20-64, Cl. 122-7.
- Danley, Philip R., and J. A. Pharris, to Sears, Roebuck and Co. Paint brush. 3,133,299, 5-19-64, Cl. 15-193.
- Danly, James C., and V. Georgeff, to Danly Machine Specialties, Inc. Carrier clamp for quick die change press. 3,134,350, 5-26-64, Cl. 113-49.
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- Dannenberg, Kurt, and B. C. Hicks, to E.M.P. Electric Ltd. High voltage arc extinguishing electric fuses. 3,138,682, 6-23-64, Cl. 200-120.
- Dannenberg, Robert E., to Kendan Associates. Porous material. 3,128,973, 4-14-64, Cl. 244-130.
- Dannenmann, Paul, and K. Patzelt, to G. Bauknecht G.m.b.H. Dish-washer nozzle assembly. 3,116,881, 1-7-64, Cl. 239-552.
- Dannenmann, Paul, and K. Patzelt, to G. Bauknecht G.m.b.H. Pivotal spray arm and dish basket support for a dish washer. 3,118,458, 1-21-64, Cl. 134-144.
- Dannenmann, Paul, and K. Patzelt, to G. Bauknecht G.m.b.H. Dish-washer basket drive. 3,133,547, 5-19-64, Cl. 134-112.
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- Danner, David L. Aircraft wing structure having variable angle of incidence. 3,147,938, 9-8-64, Cl. 244-48.
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- Wayland, Rosser L., Jr. 3,158,501.
- Dansfeld, Frank R. Lathe tool holder. 3,156,967, 11-17-64, Cl. 29-96.
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- Dantowitz, Philip, to General Electric Co. Velocity and rate of change of pressure limiting system. 3,119,308, 1-28-64, Cl. 91-38.
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- D'Apolito, Matteo, to Foster Grant Co., Inc. Molded article separator. 3,151,813, 10-6-64, Cl. 241-68.
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- Darash, Nicholas P., to The Warner & Swasey Co. Machine tool drives. 3,156,146, 11-10-64, Cl. 82-24.
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- Darcy, Joseph T. Paint dispenser. 3,139,220, 6-30-64, Cl. 222-192.
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- Dargan, Ervin E., and W. A. Barber, to The Terrell Machine Co. Machine for forming a cylindrical billet with a plane surface substantially parallel to the billet axis. 3,129,733, 4-21-64, Cl. 143-117.
- Darland, William G., Jr., to United States of America, Navy. Galvanic battery electrode. 3,150,008, 9-22-64, Cl. 136-27.
- Darland, William G., Jr., to United States of America, Navy. Eccentric separator for galvanic battery. 3,156,588, 11-10-64, Cl. 136-143.
- Darland, William G., Jr., and R. A. Powers, to Union Carbide Corp. Electrodes for logarithmic detector units. 3,126,504, 3-24-64, Cl. 317-231.
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- Darley, Jesse W., deceased, by M. J. Darley, administratrix. Flower knife. 3,160,953, 12-15-64, Cl. 30-279.
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- Darling, Chester A., to Barth Engineering and Mfg. Co. Apparatus for sensing and controlling fluid flow in the form of discrete free-falling drops. 3,163,176, 12-29-64, Cl. 137-487.5.
- Darling, James P., to The General Tire & Rubber Co. Ship fender. 3,125,979, 3-24-64, Cl. 114-219.
- Darling, James P., and C. O. Slemmons, to The General Tire & Rubber Co. Multicompartment receptacle for the ingredients of a concrete mix. 3,131,741, 5-5-64, Cl. 150-1.
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- David, Charles E., and R. L. Haynes, to United States of America, Navy. High frequency phase splitter utilizing bifilar windings. 3,154,750, 10-27-64, Cl. 330-14.
- David, Charles W., to Optical Gaging Products, Inc. Semi-automatic etching machine. 3,163,572, 12-29-64, Cl. 156-345.
- David, Edward E., Jr., to Bell Telephone Laboratories, Inc. Artificial reconstruction of speech. 3,127,476, 3-31-64, Cl. 179-15.55.
- David, Edward E., Jr., M. V. Mathews, and J. E. Miller, to Bell Telephone Laboratories, Inc. Automatic formant locator. 3,127,477, 3-31-64, Cl. 179-15.55.
- David, Edward J.: See—
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- David, Freddy, C. R. Fisher, Jr., and W. V. Tyrlick, to General Dynamics Corp. Multiple selection system. 3,154,771, 10-27-64, Cl. 340-174.1.
- David, George J., to Automatic Electric Laboratories, Inc. Printed circuitry for magnetic core matrix. 3,133,270, 5-12-64, Cl. 340-174.
- David, Gordon W., and T. A. Green, to Bailey Meter Co. Flow nozzle. 3,132,670, 5-12-64, Cl. 138-40.
- David, Israel A., to E. I. du Pont de Nemours and Co. Reaction of acetylene with amines. 3,151,159, 9-29-64, Cl. 260-563.
- David, Roderic A., to International Business Machines Corp. Self-checking numbering devices. 3,138,701, 6-23-64, Cl. 235-153.
- David, Vernon J. Nail extractor. 3,150,858, 9-29-64, Cl. 254-26.
- Davidovic, Vlastimir: See—
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- Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Stabilization of chlorinated hydrocarbons with 1,4-dioxane and acetylenic alcohol ester. 3,124,620, 3-10-64, Cl. 260-652.5.
- David, Clifford R., to The Masquardt Corp. Telemechanical stress device. 3,132,525, 5-12-64, Cl. 74-17.8.
- Davidse, Jan, and B. H. J. Cornelissen, to North American Philips Co. Circuit arrangement for controlling a colour television display tube. 3,119,898, 1-28-64, Cl. 178-5.4.
- Davidson, Alfred. Method of forming prestressed tubular structures. 3,162,709, 12-22-64, Cl. 264-228.
- Davidson, Allen R., to Industrial Nucleonics Corp. Method and apparatus for determining moisture content and other variables utilizing a capacitor test cell at two different frequencies. 3,155,899, 11-3-64, Cl. 324-61.
- Davidson, Arthur R.: See—
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- Davidson, Arthur R., and R. K. McCormack, to Lamb-Weston, Inc. Air cooling system for below freezing temperatures. 3,138,939, 6-30-64, Cl. 62-155.
- Davidson, Charles. Folding and nesting delivery tray for bakery goods or the like. 3,124,254, 3-10-64, Cl. 211-132.
- Davidson, Charles R., Jr.: See—
Gollightly, James S., Doehliert, and Davidson. 3,161,493.
- Davidson, Charlie H., and F. Owens, to United States of America, Army. Quick disconnect high pressure coupling. 3,162,470, 12-22-64, Cl. 285-86.
- Davidson, Donald E., to Davidson Optonics, Inc. Auto-collimator and automatic control means therefor. 3,161,715, 12-15-64, Cl. 88-14.
- Davidson, Donald J., to Pegson Ltd. Jaw crushers. 3,128,954, 4-14-64, Cl. 241-269.
- Davidson, Donald W., and K. U. Ingold, to National Research Council. Detection of spoilage. 3,118,774, 1-21-64, Cl. 99-192.
- Davidson, Emil, to Guild Molders, Inc. Closure for containers. 3,160,269, 12-8-64, Cl. 206-15.2.
- Davidson, Emil, to Guild Molders, Inc. Multiple-part plastic pump for liquids. 3,162,333, 12-22-64, Cl. 222-207.
- Davidson, Gareth M.: See—
Bock, Robert O., and Davidson. 3,136,987.
- Davidson, Gordon L.: See—
Herzfeld, Richard P., and Davidson. 3,131,351.
- Davidson and Hemmendinger: See—
Davidson, Hugh R. 3,159,742.
- Davidson, Hubert: See—
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- Davidson, Hugh R., to Davidson and Hemmendinger. Tristimulus difference computer. 3,159,742, 12-1-64, Cl. 235-184.
- Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Convertible type aircraft. 3,163,376, 12-29-64, Cl. 244-7.
- Davidson, Ivor M., and L. Islip, to Power Jets (Research and Development) Ltd. Helicopter control mechanism. 3,139,836, 7-7-64, Cl. 170-135.4.
- Davidson, James D. Standard adjustable die gauge. 3,137,258, 6-16-64, Cl. 113-49.
- Davidson, James R.: See—
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- Davidson, John D., and F. J. Murphy, Jr., to Westinghouse Electric Corp. Shaft position indicator. 3,155,955, 11-3-64, Cl. 340-268.
- Davidson, John H. C., to Selkirk Metal Products. Prefabricated chimney. 3,160,087, 12-8-64, Cl. 98-46.
- Davidson, Joseph W.: See—
Irvin, Howard B., and Davidson. 3,123,004.
- Davidson, Leo R. Fastening means for faucet handle. 3,140,635, 7-14-64, Cl. 85-1.
- Davidson, Leon J. Portable enclosure. 3,162,460, 12-22-64, Cl. 280-36.
- Davidson, Lucien V. Floating tong. 3,156,496, 11-10-64, Cl. 294-38.
- Davidson, Norman R., to United States of America, Atomic Energy Commission. Process for preparation of sulfur-containing compounds of plutonium. 3,162,509, 12-22-64, Cl. 23-14.5.
- Davidson Optonics, Inc.: See—
Davidson, Donald E. 3,161,715.
- Davidson, Per, to Sandvikens Jernverks Aktiebolag. Method of making hot tops for ingot molds. 3,123,878, 3-10-64, Cl. 22-193.
- Davidson, Ralph L.: See—
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- Davidson, Ralph L., to Curtis & Marble Machine Co. Adjustable web tensioning apparatus. 3,132,786, 5-12-64, Cl. 226-111.
- Davidson Rubber Co.: See—
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Hood, Bruce G. 3,124,627.
- Davidson Rubber Co., Inc.: See—
Hood, Bruce G. 3,118,153.
Hood, Bruce G. 3,129,270.
Hood, Bruce G. 3,161,436.
- Davidson, Sidney. Lower torso garment embodying sacroiliac supporting waist band. 3,141,457, 7-21-64, Cl. 128-95.
- Davidson, Thomas G.: See—
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- Davidson, Wilbur L., and T. G., and R. W. Shiker: said T. G. Davidson, and said Shiker, assors. to said W. L. Davidson. Vending machine change dispenser. 3,125,103, 3-17-64, Cl. 133-5.
- Davidson, William E., to General Electric Co. Flooded boiler steam or spray iron. 3,156,054, 11-10-64, Cl. 38-77.
- Davidson, Woodrow W., to Sperry Rand Corp. Document transport and stacking device. 3,147,970, 9-8-64, Cl. 271-57.
- Davie, Julian A. W., to International Computers and Tabulators Ltd. Information storage apparatus. 3,117,307, 1-7-64, Cl. 340-173.
- Davie, William R., and J. C. E. Schult, to Pittsburgh Chemical Co. Hydroperoxide formation. 3,160,668, 12-8-64, Cl. 260-610.
- Davies, Albert, to Imperial Chemical Industries Ltd. Process for the electrolytic production of fluorine and apparatus therefor. 3,146,179, 8-25-64, Cl. 204-60.

- Davis, Beaumont J., and C. Wallis, to George Richards & Co. Ltd. Position signal generating apparatus. 3,122,686, 2-25-64, Cl. 318-18.
- Davis, Ben: See—
King, Donald F., and Davis. 3,141,784.
McGreight, Donald O., Davis, and Renkey. 3,144,345.
- Davis, Ben, to Harbison-Walker Refractories Co. Refractory shapes and method of making same. 3,141,785, 7-21-64, Cl. 106-59.
- Davis, Ben, and R. E. Birch, to Harbison-Walker Refractories Co. Refractory. 3,138,470, 6-23-64, Cl. 106-62.
- Davis, Ben, E. P. Weaver, and P. H. Havranek, to Harbison-Walker Refractories Co. Burned basic refractory shapes. 3,141,790, 7-21-64, Cl. 117-123.
- Davis, Boyd A. Clip for securing flexible material to a cylindrical member. 3,142,880, 8-4-64, Cl. 24-265.
- Davis, David O., J. M. S. Keen, and G. K. Hensman, to Rolls-Royce Ltd. Bearings. 3,135,562, 6-2-64, Cl. 308-36.1.
- Davis, David O., N. R. Robinson, and J. M. S. Keen, to Rolls-Royce Ltd. Gas turbine engine. 3,141,913, 9-8-64, Cl. 280-207.
- Davis, Donald D., to RAP Industries, Inc. Package. 3,128,030, 4-7-64, Cl. 229-25.
- Davis, Donald W., and R. F. Hazard, to International Computers and Tabulators Ltd. Apparatus for recording characters. 3,120,801, 2-11-64, Cl. 101-93.
- Davis, Edward R., G. L. Bowen, and R. W. Lemon, to Jered Industries, Inc. Multiple speed transmission. 3,144,107, 8-11-64, Cl. 192-13.
- Davis, Eric, to The Marconi Co. Ltd. Line-field distortion cross-current compensating circuit. 3,149,260, 9-15-64, Cl. 315-27.
- Davis, Eric, and A. N. Heighman, to The Marconi Co. Ltd. Signal correcting circuit arrangements. 3,149,287, 9-15-64, Cl. 328-140.
- Davis, Eric T. J., and R. J. Rosser. Rocketwise propelled projectiles of the unguided type. 3,118,377, 1-21-64, Cl. 102-49.
- Davis, George, 1/2 to H. Wertheimer. Abrasive elements. Re. 25,582, 6-19-64, Cl. 29-78.
- Davis, Gilbert E., and E. V. Weissbrodt, to Superior Ball Joint Corp. Method of fabricating a ball and socket assembly. 3,141,231, 7-21-64, Cl. 29-149.5.
- Davis, Harold G. Testing apparatus. 3,125,884, 3-24-64, Cl. 73-514.
- Davis, James F.: See—
White, Roger F., Davis, and Schulkin. 3,151,448.
- Davis, James J., and W. E. Wallis, to The Dow Chemical Co. Certain tris(2-oxazolidinone)-phosphoryldynes. 3,149,121, 9-15-64, Cl. 260-307.
- Davis, James W.: See—
Carow, Walter M., and Davis. 3,143,719.
- Davis, John T. Margin return automatically actuated by spacer bar. 3,162,289, 12-22-64, Cl. 197-65.
- Davis, Merton E., to The Rand Corp. Photographic apparatus. 3,143,048, 8-4-64, Cl. 95-12.5.
- Davis, Norman E.: See—
Watelet, Ermand L., and Davis. 3,131,482.
- Davis, Richard E., to Associated Electrical Industries Ltd. Control of strip driving means. 3,156,397, 11-10-64, Cl. 226-42.
- Davis, Robert, Jr., to Youngstown Foundry & Machine Co. Method for loading workpieces onto a lathe. 3,140,626, 7-14-64, Cl. 82-1.
- Davis, Thomas P., to Johnson & Johnson. Process of making a surgical dressing. 3,132,984, 5-12-64, Cl. 156-334.
- Davis, William E.: See—
Meckstroth, Robert C., Sulek, Morin, Day, Silcott, and Davis. 3,139,026.
- Davis, William T., F. H. Stark, and H. S. Bateman, to Rolls-Royce Ltd. Manufacture of turbine and compressor blades. 3,156,808, 11-10-64, Cl. 219-69.
- D'Avigdor, Leslie B., deceased, by S. J. Schwartz, executor. Sway control apparatus. 3,154,320, 10-27-64, Cl. 280-112.
- Da Vinci, Anthony P.: See—
Anderer, Joseph H., Da Vinci, and McHugh. 3,156,605.
- Davis, Alfred C., to The Imperial Tobacco Co. (of Great Britain and Ireland) Ltd. Method for treating tobacco. 3,136,321, 6-9-64, Cl. 131-140.
- Davis, Allan C., to F. A. Davis & Sons, Inc. Strip severing machine. 3,128,928, 4-14-64, Cl. 225-100.
- Davis, Allan C., to F. A. Davis & Sons, Inc. Strip severing machine. 3,140,026, 7-7-64, Cl. 225-100.
- Davis, Ariel R. Electrical apparatus for controlling current and voltage. 3,128,440, 4-7-64, Cl. 323-60.
- Davis, Ariel R. Peaking ballast comprising inductive means having nonmagnetic gaps in flux paths. 3,135,938, 6-2-64, Cl. 336-165.
- Davis, Ariel R. Variable transformer and winding. 3,153,212, 10-13-64, Cl. 336-149.
- Davis, Ariel R. Interlocking casing. 3,159,436, 12-1-64, Cl. 312-107.
- Davis, Arthur L. Fogging gun for insecticides and the like. 3,134,191, 5-26-64, Cl. 43-129.
- Davis, Augustine, Jr., and J. A. Nichols, to Davisbilt Steel Joist Inc. Metal joist. 3,131,791, 5-5-64, Cl. 189-37.
- Davis, Bret. Compensating spring devices. 3,132,855, 5-12-64, Cl. 267-60.
- Davis, Charles, Ltd.: See—
Grubb, Lewis W. 3,129,493.
- Davis, Charles A., to The Ohio Brass Co. Valve testing and fixture therefor. 3,131,558, 5-5-64, Cl. 73-40.
- Davis, Charles A., to W. J. Young Machinery Co., Inc. Nailing feed machine mechanism. 3,142,841, 8-4-64, Cl. 1-6.
- Davis, Charles B.: See—
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- Davis, Charles C., to Litton Systems, Inc. Phonograph reproducer. 3,142,729, 7-28-64, Cl. 179-100.41.
- Davis, Charles J., to Massey-Ferguson, Inc. Transversely shiftable boom mounting for mechanical shovels. 3,117,685, 1-14-64, Cl. 214-138.
- Davis, Charles J., and J. J. Lesher: said Lesher assor. to said Davis. Trencher chain digger bucket assembly. 3,133,365, 5-19-64, Cl. 37-86.
- Davis, Charles L.: See—
Alexander, James W., and Davis. 3,131,160.
- Davis, Charles S., Jr., and S. W. Baker, to Bergen Research Engineering Corp. Gear type transmissions. 3,144,790, 8-18-64, Cl. 74-801.
- Davis, Charley W., Jr. Bidet and douche attachments for toilet bowls. 3,156,929, 11-17-64, Cl. 4-7.
- Davis, Claude W. Golf practice device including a magnet displaceable by a golfer's swing. 3,136,553, 6-9-64, Cl. 273-186.
- Davis, Clyde W., and F. A. Ehlers, to The Dow Chemical Co. Acrylonitrile polymer compositions. 3,133,039, 5-12-64, Cl. 260-45.5.
- Davis, Dale R., C. C. Natale, and C. J. Fox, to Eastman Kodak Co. Electrophotographic layers and sensitizers for same. 3,141,770, 7-21-64, Cl. 96-1.
- Davis, Donald H., and F. S. O'Bryon, to General Electric Co. Steam valve disk assembly with internal bypass valve. 3,141,456, 7-21-64, Cl. 137-630.14.
- Davis, Donovan C.: See—
Van Alstyne, Cutler, and Davis. 3,159,837.
- Davis, Earl K. Spreader for viscous materials. 3,119,138, 1-28-64, Cl. 15-236.
- Davis, Edward M., Jr., to International Business Machines Corp. Binary adder. 3,148,274, 9-8-64, Cl. 235-172.
- Davis, F. A., & Sons, Inc.: See—
Davis, Allan C. 3,128,928.
Davis, Allan C. 3,140,026.
- Davis, Felix A.: See—
Appelt, Weldon F., and Davis. 3,147,714.
- Davis Flow Valve, Inc.: See—
Davis, Harry S. 3,154,090.
- Davis, Francis A., Jr., and J. F. Flannery, to Paramount Packaging Corp. Stacking device. 3,159,399, 12-1-64, Cl. 271-89.
- Davis, Francis E., Jr. Alternate annular isothermal reactor. 3,127,247, 3-31-64, Cl. 23-288.
- Davis, Francis J.: See—
Reinhardt, Paul W., and Davis. 3,140,398.
- Davis, Frank F. Drilling saw. 3,127,944, 4-7-64, Cl. 175-329.
- Davis, Frank F. Drilling system with plural below ground motors. 3,161,243, 12-15-64, Cl. 175-95.
- Davis, Frank L. Safety belt buckle. 3,130,467, 4-28-64, Cl. 24-230.
- Davis, Frank L. Seat belt buckle. 3,131,446, 5-5-64, Cl. 24-77.
- Davis, Frank L. Covered life preserver with automatic cover discharging self-inflation. 3,143,751, 8-11-64, Cl. 9-318.
- Davis, Geoffrey, to International Standard Electric Corp. Electrical spring contact sockets. 3,140,907, 7-14-64, Cl. 339-17.
- Davis, George T., to Jersey Production Research Co. Chemical method of injecting water shut-off agent in air drilling. 3,141,613, 7-21-64, Cl. 175-72.
- Davis, Gurney G., to Burlington Industries, Inc. Quill counter for automatic winding machines. 3,151,818, 10-6-64, Cl. 242-35.5.
- Davis, Harry S., to Davis Flow Valve, Inc. Sequencing valve. 3,154,090, 10-27-64, Cl. 137-119.
- Davis, Henderson G. Slip-proof wrench. 3,121,356, 2-18-64, Cl. 81-119.
- Davis, Henry F., to Minneapolis-Honeywell Regulator Co. Signal amplitude discriminator. 3,123,774, 3-3-64, Cl. 328-1.
- Davis, Henry F., to Minneapolis-Honeywell Regulator Co. System with plural inputs having feedback means for preventing interaction between said inputs. 3,146,401, 8-25-64, Cl. 328-147.
- Davis, Herman E.: See—
Hoyle, Vinton A., Jr., and Davis. 3,157,710.
Toney, George P., and Davis. 3,152,993.
- Davis, Hubert A. Cleaning device with pad and handle. 3,131,409, 5-5-64, Cl. 15-244.
- Davis, Jack R.: See—
Harper, Billy G., and Davis. 3,130,139.
- Davis, Jack T.: See—
Sexton, Don W., Ball, and Davis. 3,159,787.
- Davis, James A., and H. E. Hagerty, to Armour and Co. Separating apparatus. 3,136,422, 6-9-64, Cl. 209-82.
- Davis, James B., to Monsanto Co. Fire-resistant functional fluids. 3,149,077, 9-15-64, Cl. 252-75.
- Davis, James E.: See—
Hanson, Bernard B., Stollgrosz, and Davis. 3,151,610.
- Davis, James R.: See—
Cook, Aaron L., Davis, and Shockley. 3,120,668.
- Davis, James R., and M. C. Doolittle, to The Trane Co. Heating and cooling apparatus. 3,129,753, 4-21-64, Cl. 165-36.

- Davis, John B., and R. L. Raymond, to Socony Mobil Oil Co., Inc. Microbial disposal of oily wastes. 3,152,983, 10-13-64, Cl. 210-11.
- Davis, John D.: See—
Barnett, Louis H., and Davis. 3,144,940.
- Davis, John E., to Bio-Science Laboratories. Agitator for laboratory tubes and flasks. 3,159,384, 12-1-64, Cl. 259-72.
- Davis, John H., and W. F. Harbison, to General Dynamics Corp. Fastening device. 3,128,813, 4-14-64, Cl. 151-41.72.
- Davis, John H., to General Dynamics Corp. Blind rivet having means for retaining the expansion bolt. 3,136,203, 6-9-64, Cl. 85-40.
- Davis, John H., Jr.: See—
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- Davis, John L.: See—
Theodore, Ralph G., and Davis. 3,153,140.
- Davis, John R., and J. E. Whately, to United Gas Corp. Limited-rotation unidirectional drive. 3,130,826, 4-28-64, Cl. 192-12.
- Davis, John S., to Equitable Paper Bag Co., Inc. Book mailer. 3,130,895, 4-28-64, Cl. 229-40.
- Davis, John S., to Equitable Paper Bag Co., Inc. Burst resistant paper shopping bag. 3,144,815, 8-18-64, Cl. 93-35.
- Davis, John S., to Equitable Paper Bag Co., Inc. Making bags with enclosed stiffener at top. 3,148,598, 9-15-64, Cl. 93-8.
- Davis, John S., to Equitable Paper Bag Co., Inc. Shopping bag. 3,156,166, 11-10-64, Cl. 93-35.
- Davis, John S., and W. H. K. Grob, to Equitable Paper Bag Co. Coin controlled shopping bag dispenser. 3,119,484, 1-28-64, Cl. 194-2.
- Davis, John V., to The Udyllite Corp. Elevating and transfer mechanism. 3,116,821, 1-7-64, Cl. 198-19.
- Davis, John V., to The Udyllite Corp. Conveying machine. 3,119,486, 1-28-64, Cl. 198-19.
- Davis, John V., to The Udyllite Corp. Carrier stop mechanism. 3,149,581, 9-22-64, Cl. 104-162.
- Davis, John W., to Dunlop Rubber Co. Ltd. Calliper-type disc brakes. 3,129,790, 4-21-64, Cl. 188-73.
- Davis, John W., to Dunlop Rubber Co. Ltd. Caliper type disc brake. 3,135,359, 6-2-64, Cl. 188-73.
- Davis, Joseph H. R., Jr., and E. M. Honeycutt, to Sun Oil Co. Process for color stabilization and hydrodesulfurization or cracked gas oils. 3,162,597, 12-22-64, Cl. 208-216.
- Davis, Kenneth J., and A. B. Bassoff, to National Broach & Machine Co. Mechanical feeding mechanism for machine tool. 3,133,448, 5-19-64, Cl. 74-142.
- Davis, Leo R. Safety device for tractors. 3,143,180, 8-4-64, Cl. 180-14.5.
- Davis, Les, Fishing Tackle Co.: See—
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Davis, Lester M. 3,146,542.
- Davis, Lester M., to Les Davis Fishing Tackle Co. Fishing spinning lure. 3,127,694, 4-7-64, Cl. 43-42.19.
- Davis, Lester M., to Les Davis Fishing Tackle Co. Wobble spoon. 3,146,542, 9-1-64, Cl. 43-42.5.
- Davis, Lewis M.: See—
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- Davis, Lewis M., to Sealed Power Corp. Self-cleaning piston ring. 3,124,362, 3-10-64, Cl. 277-24.
- Davis, Lincoln K., and D. G. McLelland, to The Foxboro Co. Ink supply. 3,140,912, 7-14-64, Cl. 346-140.
- Davis, Lloyd R. Portable tool for machining conduit ends. 3,119,288, 1-28-64, Cl. 77-73.
- Davis, Louis D., to Amsted Industries Inc. Railway tread brake arrangement. 3,120,881, 2-11-64, Cl. 188-195.
- Davis, Louis H., to Concrete Steps, Inc. Mold for casting a concrete step unit. 3,128,605, 3-31-64, Cl. 25-118.
- Davis, Lowell: See—
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- Davis-Lynch, Inc.: See—
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- Davis, Lynn T., to Puritan Compressed Gas Corp. Sanitary sealing apparatus for ports of medical gas cylinder valves. 3,125,242, 3-17-64, Cl. 220-85.
- Davis, Manfred, to General Precision, Inc. Phase measuring device including frequency multiplying means for accomplishing fine and coarse measurements. 3,150,316, 9-22-64, Cl. 324-88.
- Davis, Marion F., and A. L. Hedrich. Missile guidance system. 3,141,635, 7-21-64, Cl. 244-14.
- Davis, Martin, to American Home Products Corp. Ester of 1-methyl-3-(hydroxyethoxy)piperidine. 3,126,379, 3-24-64, Cl. 260-243.
- Davis, Martin A.: See—
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- Davis, Martin A., to American Home Products Corp. Dibenzocycloheptadienyl isocyanate and acetylureas. 3,129,238, 4-14-64, Cl. 260-458.
- Davis, Martin A., to American Home Products Corp. Basic alkoxyalkyl xanthene-9-carboxylate and its acid addition salts. 3,133,937, 5-19-64, Cl. 260-335.
- Davis, Martin A., to American Home Products Corp. Spiro-oxazolidinedione derivatives. 3,138,608, 6-23-64, Cl. 260-307.
- Davis, Martin A., to American Home Products Corp. Basic esters of 5-hydroxydibenzo [a,d] [1,4] cycloheptadiene-5-carboxylic acid. 3,142,681, 7-28-64, Cl. 260-294.3.
- Davis, Martin A., to American Home Products Corp. Ethylenediamine derivative. 3,144,451, 8-11-64, Cl. 260-243.
- Davis, Martin A., to American Home Products Corp. Spiro-[dibenzo [a,d] [1,4] cycloheptadiene-5, alpha-succinimide]. 3,153,050, 10-13-64, Cl. 260-326.5.
- Davis, Martin A., and S. O. Winthrop, to American Home Products Corp. Alkylidene acetylenic carbinol and preparation thereof. 3,134,820, 5-26-64, Cl. 260-618.
- Davis, Martin A., and F. Herr, to American Home Products Corp. Spirohydantoin derivative. 3,162,646, 12-22-64, Cl. 260-309.5.
- Davis, Marvin A.: See—
Wahrman, Robert A., Davis, and Courcoulas. 3,153,200.
- Davis, Merton L., and L. C. Palmer, to E. I. du Pont de Nemours and Co. Process for providing high density dry spun acrylonitrile polymer filaments. 3,124,631, 3-10-64, Cl. 264-290.
- Davis, Michael, and C. E. Kraus: said Davis assor. to Curtiss-Wright Corp., and said Kraus assor. to Excelleratic Inc. Ratio control for toroidal transmission. 3,142,189, 7-28-64, Cl. 74-200.
- Davis, Mike B. Traction aid for wheeled vehicles. 3,130,767, 4-28-64, Cl. 152-216.
- Davis, Miles: See—
Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,179.
Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,180.
- Davis, Milton W., Jr.: See—
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- Davis, Nathan W. Treatment of complex ores. 3,135,597, 6-2-64, Cl. 75-2.
- Davis, Nathan W. Destructive distillation of gilsonite and products thereof. 3,135,619, 6-2-64, Cl. 106-248.
- Davis, Noah S.: See—
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- Davis, Noah S., and J. W. Mohlman, to North American Aviation, Inc. Water purification process using an absorption refrigeration cycle. 3,137,555, 6-18-64, Cl. 62-58.
- Davis, Orland T. Stripping tool. 3,116,554, 1-7-64, Cl. 30-91.
- Davis, Orris L., and R. W. Dorn, to Shell Oil Co. Ethyl amyl ketone peroxide. 3,151,170, 9-29-64, Cl. 260-610.
- Davis, Orvis A., Sr.: See—
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- Davis, Orvis A., Sr., to Gulf Research & Development Co. Aspirating liquid fuel burner. 3,131,749, 5-5-64, Cl. 158-4.
- Davis, Orvis A., Sr., and M. G. Frankoff, to Gulf Research & Development Co. Perforated tube combustion apparatus and process. 3,150,708, 9-29-64, Cl. 158-28.
- Davis, Oscar B., to H.V. Developments Ltd. Vending machine. 3,144,285, 8-11-64, Cl. 312-97.1.
- Davis, Paul, to Sweetheart Plastics, Inc. Nestable article. 3,122,264, 2-25-64, Cl. 220-97.
- Davis, Paul, to Sweetheart Plastics, Inc. Container cover. 3,137,409, 6-16-64, Cl. 220-97.
- Davis, Paul, and O. W. Burke, Jr., to O. W. Burke, Jr. High energy fuel units and assemblies. 3,163,113, 12-29-64, Cl. 102-98.
- Davis, Philip C., and M. L. Gould, to Ethyl Corp. Mixing apparatus for use in the chlorination of alkanes. 3,154,103, 10-27-64, Cl. 137-625.4.
- Davis, Phillip W.: See—
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- Davis, Ralph B., to University of Notre Dame. Arylcyanomethylene quinone oximes and their derivatives. 3,156,704, 11-10-64, Cl. 260-396.
- Davis, Ralph M., to Container Corp. of America. Shipping container with reusable closure flap. 3,142,432, 7-28-64, Cl. 229-38.
- Davis, Ray F., and A. Gudmundsen, to McCulloch Corp. Tree pruning device. 3,155,933, 12-1-64, Cl. 30-276.
- Davis, Raymond L., II, to Leeds and Northrup Co. Measurement and control of constituent potentials. 3,128,323, 4-7-64, Cl. 266-2.
- Davis, Reginald F., to Sulzer Freres, S.A. Forced flow steam generator. 3,129,698, 4-21-64, Cl. 122-510.
- Davis, Rex M., to Brush Electrical Engineering Co. Ltd. Synchronous induction motor speed control. 3,148,320, 9-8-64, Cl. 318-171.
- Davis, Robert E., to General Motors Corp. Ice mold. 3,120,112, 2-4-64, Cl. 62-369.
- Davis, Robert E., Jr.: See—
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- Davis, Robert E., Jr., to The A. C. Gilbert Co. Model stop-go traffic light. 3,143,721, 8-4-64, Cl. 340-84.
- Davis, Robert H. Active thin-film devices controlling current by modulation of a quantum mechanical potential barrier. 3,121,177, 2-11-64, Cl. 307-88.5.
- Davis, Robert H., to Socony Mobil Oil Co., Inc. Lubricant composition containing dispersed calcium acetate. 3,121,689, 2-18-64, Cl. 252-40.5.
- Davis, Robert L. Watch crown seal. 3,130,539, 4-28-64, Cl. 58-90.

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Davis, William J., and R. C. Gilles, to Polymer Processes, Inc. Ferromagnetic structure and method for preparing same. 3,162,082, 10-6-64, Cl. 252-62.5.
Davis, William L., Jr., and J. H. Baugh. Football drier. 3,152,875, 10-13-64, Cl. 34-104.
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- Daykin, Donald R., to International Business Machines Corp. Pulse generating circuit. 3,121,800, 2-18-64, Cl. 307-88.
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- De Biasi, Charles P., Spreader with rotatable hopper. 3,124,274, 3-10-64, Cl. 222-136.
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- De Biasi, Charles P., Material spreading spinner. 3,156,473, 11-10-64, Cl. 275-15.
- De Biasi, Conrad G., Transistor-regulated direct current power supply with remote programming capabilities. 3,138,752, 6-23-64, Cl. 323-22.
- De Boer, Albert, to Knapp-Monarch Co. Indicator for CO₂ inflation device. 3,142,850, 8-4-64, Cl. 9-11.
- De Boer, Clarence: See—
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- De Boer, Clarence, A. Dietz, T. E. Eble, and C. M. Large, to The Upjohn Co. Streptolydigin and production thereof. 3,180,560, 12-8-64, Cl. 167-65.
- De Boer, Geert, to Volma, N.V. Device for periodically filling cheese moulds with a metered lump of curd. 3,142,904, 8-4-64, Cl. 31-13.
- De Boer, Henri G. J., to N.V. Lichtdrukpapierfabriek De Atlas. Light-sensitive diazotype compositions. 3,155,512, 11-3-64, Cl. 96-91.
- De Boer, John R., Panel mounted tie-down terminals. 3,142,264, 7-28-64, Cl. 105-369.
- De Boer, Nicolaas R., to Societe Anonyme Eternit. Couplings for pipes. 3,163,432, 12-29-64, Cl. 277-209.
- De Boishlanc, Deslonde R., and B. H. Leonard, Jr., to United States of America, Atomic Energy Commission. Advanced test reactor. 3,149,044, 9-15-64, Cl. 176-18.
- De Bolt, Frank C., and R. A. Hills, to United States of America, Navy. Sequential keyer. 3,153,733, 10-20-64, Cl. 307-88.5.
- De Boy, Marvin F., F. D. Rogers, and R. E. Flexman, to United States of America, Navy. Side arm controller. 3,149,806, 9-22-64, Cl. 244-83.
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- Debray, Jean-Claude, to Compagnie des Freins et Signaux Westinghouse. High speed compressor for light weight vehicles requiring pneumatic service. 3,144,198, 8-11-64, Cl. 230-38.
- Debrie, Andre V. L. C. Accessory for use with developing machines. 3,119,319, 1-28-64, Cl. 93-89.
- De Bruijn, Willem F. L.: See—
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- De Bruijn, Calvin N.: See—
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- De Bruin, Hugo J., to Ideal Industries, Inc. Live center. 3,120,776, 2-11-64, Cl. 82-33.
- De Bruin, Hugo J., to Ideal Industries, Inc. Shear-type wire stripper. 3,122,037, 2-25-64, Cl. 81-9.5.
- De Bruin, Hugo J., to S. J. Forbes. Unitary percussion hand drill. 3,145,782, 8-25-64, Cl. 173-48.
- De Bruyn, Hendrik B., to North American Phillips Co., Inc. Spark erosion machine. 3,134,011, 5-19-64, Cl. 219-69.
- De Bruyn, William T., and B. M. Sparks, to Grand Rapids Hardware Co. Combined weatherstrip and sash balance. 3,121,923, 2-25-64, Cl. 20-52.4.
- De Bruyne, Norman A., to Techné (Cambridge) Ltd. Thermomatically controlled immersion heater assembly. 3,147,365, 9-1-64, Cl. 219-331.
- De Buhr, Edward, and J. F. Pfeffer, Jr., to E. I. du Pont de Nemours and Co. Electrode mounting arrangement for electrical discharge treatment of plastic film. 3,142,753, 7-28-64, Cl. 250-49.5.
- De Buhr, Harold E., to Deere & Co. Bale-handling mechanism. 3,127,976, 4-7-64, Cl. 198-128.
- De Buhr, Harold E., to Deere & Co. Bale handling apparatus. 3,128,870, 4-14-64, Cl. 198-128.
- De Buhr, Harold E., to Deere & Co. Bale thrower. 3,155,223, 11-3-64, Cl. 198-128.
- De Bulgne, Carl, to United States of America, Atomic Energy Commission. Extrusion cladding press and method. 3,137,389, 6-16-64, Cl. 207-41.
- De Bulgne, Frank. Method and apparatus for coordinating measuring operations. 3,149,722, 9-22-64, Cl. 209-75.
- De Bussy, Jacques M. Y. L., to Verreries Pochet et du Courval. Electric glassmaking furnace. 3,147,328, 9-1-64, Cl. 13-8.
- Decamps, Georges, to Societe Lorraine de Laminage Continu Sollac. 3,136,626, 6-9-64, Cl. 75-52.
- De Caro, Charles J.: See—
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- De Caro, Charles J., and R. J. Kopf, to Olin Mathieson Chemical Corp. Extractor and deformable plastic cartridge. 3,144,727, 8-18-64, Cl. 42-25.
- De Cat, Arthur H., R. K. Van Poucke, and M. H. Verbrugge, to Gevaert Photo-Producten N.V. Method of preparing non-migratory color couplers for yellow. 3,138,604, 6-23-64, Cl. 260-294.8.
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- Decker, Alfred S., and J. W. Johnsen, to Owens-Illinois Glass Co. Lehr for glassware. 3,145,092, 8-18-64, Cl. 65-351.
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- Decker, Delmar P., Bird feeder. 3,134,361, 5-26-64, Cl. 119-53.
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- Decker, Harry L., and L. W. Bertram, to The Pennsylvania Railroad Co. Sliding door pusher block. 3,121,260, 2-18-64, Cl. 20-22.
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- Decker, James P., Liquid dispensing device. 3,149,762, 9-22-64, Cl. 222-478.
- Decker, Judson, and G. D. Gilmore, to Bopp-Decker Plastics, Inc. Container capper. 3,137,982, 6-23-64, Cl. 53-316.
- Decker, Raymond F.: See—
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- Decker, Raymond F., and C. J. Novak, to The International Nickel Co., Inc. Aged steel. 3,132,938, 5-12-64, Cl. 75-124.
- Decker, Raymond H., to Structo Mfg. Co. Bulldozer toy with automatic dump mechanism. 3,161,987, 12-22-64, Cl. 46-40.
- Decker, Robert W., Cotter pin bending tool. 3,153,357, 10-20-64, Cl. 81-15.
- Decker, Wayne R.: See—
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- Deckman, Fred H.: See—
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- De Clue, Joseph L.: See—
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- De Clue, Joseph L., to Minneapolis-Honeywell Regulator Co. High dynamic input impedance amplifier. 3,125,693, 3-17-64, Cl. 307-88.5.
- Deco Electronics, Inc.: See—
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- Dedinsky, Joseph P., Combination motor well and gasoline tank. 3,116,497, 1-7-64, Cl. 9-6.
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- Deerfield, Alan J., to Minneapolis-Honeywell Regulator Co. Error checking circuit for a plurality of parallel data transmission channels. 3,140,470, 7-7-64, Cl. 340-172.5.
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- Deerkoski, John, to Terry Industries, Inc. Self-propelled post driver. 3,117,635, 1-14-64, Cl. 175-135.
- Dees, Charles C., Fishing device. 3,150,460, 9-29-64, Cl. 43-4.
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- Deex, Oliver de S., to Monsanto Co. Heterogeneous copolymers of ethylene-acrylic esters. 3,141,870, 7-21-64, Cl. 260-86.7.
- Deex, Oliver de S., L. E. Erbaugh, and J. M. Butler, to Monsanto Co. Ethylene polymerization utilizing two organic peroxide compounds as catalysts. 3,142,666, 7-28-64, Cl. 280-84.9.
- De Falco, Angelo A., to Falcon Electronics Corp. Thermal time delay relay with relatively flexible control member. 3,156,802, 11-10-64, Cl. 200-122.
- DeFandorf, John L., R. R. Hackbarth, A. A. Kraus, and V. S. Sywulka. Switchboard-type of cabinet for electrical control apparatus. 3,140,426, 7-7-64, Cl. 317-120.
- De Faro, Luiz F., to Faroscope Mfg. Co. Photocopy unit. 3,130,636, 4-28-64, Cl. 88-24.
- De Faymoreau, Etienne C. L., and M. Mandel, to International Telephone and Telegraph Corp. Electronic switching device. 3,124,800, 3-10-64, Cl. 343-106.
- De Faymoreau, Etienne C. L., and J. A. Baudin, to International Telephone and Telegraph Corp. Air traffic control system. 3,136,991, 6-9-64, Cl. 343-6.5.
- De Feen, Michael A., Exercising apparatus comprising an elongate base having stationary and longitudinally movable support units at the ends thereof. 3,130,968, 4-28-64, Cl. 272-58.
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- De Felice, Ezio. Building structure for easily erected large pavilion. 3,149,703, 9-22-64, Cl. 189-1.
- De Feo, Richard J., and E. M. Gladrow, to Esso Research and Engineering Co. Silica-alumina-magnesia catalyst and method of converting hydrocarbons. 3,157,591, 11-17-64, Cl. 208-120.
- De Felice, Joseph A., to United Nuclear Corp. Method of operating boiling coolant reactor with positive reactivity coefficient. 3,153,617, 10-20-64, Cl. 176-20.
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- Defiance Printed Circuit Corp.: See—
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- De Fligue, Wladimir. Electromagnetic relay having several rigid contacts. 3,158,712, 11-24-64, Cl. 200-87.
- De Ford, Donald D., to Phillips Petroleum Co. Chromatographic analysis method. 3,159,019, 12-1-64, Cl. 73-23.
- De Ford, Donald D., and R. S. Brame, to Mine Safety Appliances Co. Continuous automatic coulometric titration system. 3,162,585, 12-22-64, Cl. 204-1.
- Deford, Donald E., R. P. Rohde, and W. B. Thompson, to General Motors Corp. Power steering apparatus. 3,151,696, 10-6-64, Cl. 180-79.2.
- De Forest, Sherwood S., to United States Steel Corp. Adjustable tractor hitch support for fence post driver. 3,156,303, 11-10-64, Cl. 173-43.
- De Francis, Joseph, Jr.: See—
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- De Frees, Joseph H., Gusher emergency valve. 3,125,320, 3-17-64, Cl. 251-62.
- De Freyne, Eudmon C., to Heath, Hicks & Perken (Thermometers) Ltd. Apparatus for filling thermometer blanks. 3,150,696, 9-29-64, Cl. 141-51.
- De Fries, Myron G., and J. N. Godfrey, to Atlantic Research Corp. Process for making a fibrous cellulose and/or nitrocellulose product. 3,139,355, 6-30-64, Cl. 117-155.
- De Fries, Myron G., and A. V. Rice, to Atlantic Research Corp. Solid propellant grains. 3,144,830, 8-18-64, Cl. 102-98.
- De Fries, Paul J., to General Electric Co. Semiconductor logic circuit with voltage dividing base channels. 3,152,263, 10-6-64, Cl. 307-88.5.
- De Fries, Paul J., to General Electric Co. Bistable transistor circuit with ferroelectric memory element. 3,153,833, 11-3-64, Cl. 307-88.
- De Fusco, Armando, and F. R. Weigert, to United States Rubber Co. Method of making an open hollow article from a plastisol. 3,134,831, 5-26-64, Cl. 264-161.
- Dega, Robert L., to General Motors Corp. Fluid seal testing machine. 3,132,507, 5-12-64, Cl. 73-45.2.
- Dega, Robert L., and E. F. Bundschuh, to General Motors Corp. Spring detection device. 3,128,880, 4-14-64, Cl. 209-111.5.

- De Gain, William J., to Koppy Tool and Die Co. Method of securing coil ends. 3,130,490, 4-28-64, Cl. 29-432.
- De Gain, William J., to Koppy Tool & Die Co. Work engaging fingers for transfer mechanism. 3,151,735, 10-6-64, Cl. 198-218.
- De Gahl, Carl. Apparatus for making glass fiber reinforced plastic pipe. 3,125,483, 3-17-64, Cl. 156-432.
- De Gauge, Charles L. E., Jr., to Johns-Manville Corp. Com-position brake block. 3,152,099, 10-6-64, Cl. 260-38.
- De Geer, William D., Jr., to Phillips Petroleum Co. Method of welding conduits having a resinous liner. 3,141,234, 7-21-64, Cl. 29-157.
- De Gelleke, Gerrit, to Cameron Machine Co. Tucking means for a web-winding machine. 3,134,553, 5-26-64, Cl. 242-56.
- De Gelleke, Gerrit, to Cameron Machine Co. Tucking means for a web-winding machine. 3,162,393, 12-22-64, Cl. 242-56.
- Degen, Robert A.: See—
- Faroni, Charles C., Gunther, and Degen. 3,129,742.
- Degenhardt, Carl J., to United States Steel Corp. Ward Leonard emergency stop apparatus for steel mills. 3,125,713, 3-17-64, Cl. 318-158.
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- Degginger, Edward R., to Allied Chemical Corp. Polyether based urethanes prepared in the presence of ammonium acetate. 3,157,621, 11-17-64, Cl. 260-77.5.
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- Deghenghi, Romano, to American Home Products Corp. Preparation of 17a-fluoroprogesterone and intermediates there-in. 3,118,882, 1-21-64, Cl. 260-239.55.
- Deghenghi, Romano, to American Home Products Corp. 17a-acetoxy-3-chloro-3,5-androstadiene. 3,129,233, 4-14-64, Cl. 260-397.5.
- Deghenghi, Romano, to American Home Products Corp. 17a-methyl steroids and process to make same. 3,133,913, 5-19-64, Cl. 260-239.55.
- De Gler, Nico A., to North American Phillips Co., Inc. Disc-shaped electric impedance element. 3,117,297, 1-7-64, Cl. 338-19.
- De Giers, Clarence A., to The Liquidometer Corp. Liquid level responsive gauge system. 3,161,055, 12-15-64, Cl. 113-118.
- De Giv, Louis P., to Eitel-McCullough, Inc. Method of brazing electron tube cooling fins. 3,158,122, 11-24-64, Cl. 113-118.
- Degnan, Paul E., and J. F. Healy, to Harvey Hubbell Inc. Electrical cord connector having an improved protective covering. 3,120,897, 2-11-64, Cl. 339-80.
- Degnen, William J., to Pullman Inc. Dewatering of washer filtrate. 3,154,465, 10-27-64, Cl. 162-29.
- De Good, Maynard, and C. Bowman, to The Rapids-Standard Co., Inc. Case stop for a conveyor. 3,116,818, 1-7-64, Cl. 92-32.
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- De Good, Maynard J., to Rapids-Standard Co., Inc. Motor powered accumulating conveyor. 3,156,345, 11-10-64, Cl. 198-127.
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- De Gorter, Daniel. Method for breaking glass. 3,116,862, 1-7-64, Cl. 225-2.
- De Gorter, Daniel. Apparatus for breaking glass. 3,157,329, 11-17-64, Cl. 225-93.
- De Graff, Peter C.: See—
- O'Hanlon, Dudley J., and De Graff. 3,154,189.
- De Graff, Peter C., to Viking Mfg. Co. Grinding machine. 3,146,960, 9-1-64, Cl. 241-159.
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- De Graffenried, Albert L., to Avien, Inc. Electroluminescent indicating device. 3,153,739, 10-20-64, Cl. 313-108.
- De Gray, Richard J., and L. N. Killian, to The Standard Oil Co. Glycol borate amine salts as gasoline additives. 3,133,800, 5-19-64, Cl. 44-69.
- De Gray, Richard J., and W. O. Fitzgibbons, to The Standard Oil Co. Boron compounds and compositions containing the same. 3,155,465, 11-3-64, Cl. 44-63.
- De Grazia, Joseph. Protectors for buttons having shanks. 3,138,885, 6-30-64, Cl. 38-141.
- De Groff, Morton S., to The Aero Corp. Surgical turbine. 3,128,079, 4-7-64, Cl. 253-3.
- De Groft, Walter J., to Sanford Research Co. Cap device for ball-type fluid dispenser. 3,137,886, 6-23-64, Cl. 15-572.
- De Groote, Melvin: See—
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- Denton, Robert F., to Genisco Technology Corp. Single action temperature sensitive electrical switch including camming means for a plunger retaining member. 3,155,800, 11-3-64, Cl. 200-142.
- Denton, Roy V.: See—
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- D'Entremont, Donald J.: See—
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- Dentry, Dean S., and R. C. Hendricks, to North American Aviation, Inc. Adjustable bearing block. 3,137,373, 6-16-64, Cl. 189-36.
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- Denure, Jesse V., to M. A. Nelson. Fog nozzle. 3,128,048, 4-7-64, Cl. 238-488.
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Gunsan, Cecil P. 3,151,063.
- Denver-Golden Research and Development Corp.: See—
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- Denz, Edwin: See—
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- Denzin, Horst G. G.: See—
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- De Palma, James J.: See—
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- De Palma, Ted V., to Universal Oil Products Co. Exhaust gas converter. 3,148,036, 9-8-64, Cl. 23-288.
- De Paoli, Marcello: See—
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- De Paoli, Mariano. Cap having a series of comb teeth for a razor. 3,116,550, 1-7-64, Cl. 30-34.
- De Pas, Laddie A., R. W. Spiegel, and G. J. Krolzick, to Whirlpool Corp. Automatic dry cleaning machine and combined fluid filter and vapor condenser. 3,163,028, 12-29-64, Cl. 68-12.
- De Pasquale, Patrick J. Divider for containers. 3,139,229, 6-30-64, Cl. 229-42.
- De Paul, Richard E., and F. A. Cilluffo, to Container Corp. of America. Multi-unit carton. 3,121,492, 2-18-64, Cl. 206-56.
- De Pauw, Alfons J., to Gevaert Photo-Producten N.V. Manufacture of silver halide emulsions. 3,153,593, 10-20-64, Cl. 96-94.
- De Pauw, Richard A.: See—
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- De Pelsmaker, Paul P., and J. L. de Kerf, to Gevaert Photo-Producten N.V. Method and means for controlling photographic masks and color selections. 3,162,533, 12-22-64, Cl. 96-6.
- De Pentl, Kenneth L., to National Castings Co. Car coupler. 3,128,886, 4-14-64, Cl. 213-100.
- De Pentl, Kenneth L., to National Castings Co. Car coupler. 3,157,289, 11-17-64, Cl. 213-1.
- De Pentl, Kenneth L., E. Kozak, and D. J. Wyrough, to National Castings Co. Container-to-carrier fastening system. 3,125,965, 3-24-64, Cl. 105-366.
- De Perczel, Desi, to Bell & Howell Co. Needle-matching exposure control. 3,121,376, 2-18-64, Cl. 95-10.
- Deperthes, Marcel H. P., to Compagnie des Ateliers et Forges de La Loire St-Chamond-Firminy-St-Etienne-Jacob Holtzer. Hooped assembly. 3,143,012, 8-4-64, Cl. 80-58.
- Depew, Lyndon A., to International Business Machines Corp. Pluggable reed relay package. 3,160,724, 12-8-64, Cl. 200-87.
- De Pietro, Anthony J., to Medical Electronics and Research Corp. Mounting plate. 3,123,814, 3-10-64, Cl. 32-32.
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- De Pisapia, Nicola: See—
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- Deppe, Milton G. Illumination attachment for binoculars or the like. 3,155,323, 11-3-64, Cl. 240-6.4.
- Deppe, Wilbur W. Drive for roll crusher. 3,159,356, 12-1-64, Cl. 241-230.
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- De Pree, David O., to Ethyl Corp. Process for producing aromatic carboxylic acids and alkali and alkaline earth metal salts thereof. 3,143,567, 8-4-64, Cl. 260-515.
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- Deradorian, Bagdasar, to The Bendix Corp. Two dimensional sweep circuit. 3,132,282, 5-5-64, Cl. 315-23.
- De Raedt, Egide J. H., and H. A. J. Verhille, to International Standard Electric Corp. Registering circuit. 3,143,723, 8-4-64, Cl. 340-146.1.
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- Derby, Samuel E. Demountable multiple stage ultra-high vacuum system. 3,143,594, 8-4-64, Cl. 174-17.
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- Derbyshire, Henry G., to General Aniline & Film Corp. Theryl quaternaries of certain thiazole intermediates for cyanine dyes. 3,136,772, 6-9-64, Cl. 260-302.
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- De Remer, Edgar M. Jet noise suppressor. 3,139,153, 6-30-64, Cl. 181-43.
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- Deretchin, David R., and G. F. Santee, to American Can Co. Method of improving the adhesion of polyethylene to paper and the article produced thereby. 3,142,609, 7-28-64, Cl. 161-39.
- Derham, Leslie J., to Metallurgical Processes Ltd., and National Smelting Co. Ltd. d.b.a. Metallurgical Development Co. Shock-chilling condensers for a zinc blast-furnace. 3,145,097, 8-18-64, Cl. 75-63.
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- Derl, Hubert B., to General Precision, Inc. Coordinate error signal generator. 3,142,057, 7-21-64, Cl. 343-7.
- De Ridder, Ernst J., to Reynolds Metals Co. Double faced panels. 3,151,711, 10-6-64, Cl. 189-34.
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- Derivan, Albert T., to National Starch and Chemical Corp. Method for the entrapment of choline salts. 3,163,579, 12-29-64, Cl. 167-82.
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- De Rochemont, John F., to Baker Oil Tools, Inc. Hydraulic anchors for tubular strings. 3,131,769, 5-5-64, Cl. 160-212.
- De Ronde, Frans C., to North American Philips Co., Inc. Circuit for distributing power between two mutually orthogonal polarization paths employing a rotatable absorbing strip. 3,154,754, 10-27-64, Cl. 333-7.
- De Ronde, John. Coupling unit. 3,146,003, 8-25-64, Cl. 280-515.
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- D'Errico, Michael J., to American Cyanamid Co. Process for preparing β,β -dichloropropionitrile. 3,161,577, 12-15-64, Cl. 204-158.
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- Derschmidt, Hans, to Bolkow-Entwicklungen K.G. Rotorcraft training device. 3,131,486, 5-5-64, Cl. 35-12.
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- Derschmidt, Hans, G. Eck, M. Müller, and J. Schekulin, to Bolkow-Entwicklungen Kommanditgesellschaft. Rotor blade control mechanism for rotary wing aircraft. 3,152,647, 10-13-64, Cl. 170-160.1.
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- De Seguin des Hons, Luc D. Apparatus for automatically performing chemical operations and similar or related operations. 3,143,393, 8-4-64, Cl. 23-253.
- De Selma, Roy C., to Eastman Kodak Co. Photographic emulsions containing 2-heterocyclic benzimidazole antifoggants. 3,137,578, 6-16-64, Cl. 96-109.
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- Desmarteau, Paul. Air inflated shelter. 3,123,085, 3-3-64, Cl. 135-1.
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- De Smidt, Woodrow A., to Allen-Bradley Co. Dual terminal connector. 3,144,293, 8-11-64, Cl. 339-244.
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- Desmond, Alfred E. Pouring spout construction. 3,131,847, 5-5-64, Cl. 229-17.
- Desmond, Eric, and R. C. Major, to Smiths America Corp. Method of manufacturing non-metallic tubing. 3,132,980, 5-12-64, Cl. 156-155.
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- Deuschle, Fritz: See—Higgins, John L., and Deuschle. 3,130,724.
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- De Varda, Giuseppe. Furnace for electrolysis of aluminum operating at constant height of liquid levels. 3,133,008, 5-12-64, Cl. 204-244.
- De Vay, James E. Antibiotic produced by pseudomonas syringae. 3,155,585, 11-3-64, Cl. 167-65.
- Develet, Jean A., Jr., to Bunker-Ramo Corp. Controlled blocking oscillator having equal "on" and "off" periods. 3,137,819, 6-16-64, Cl. 328-63.
- D'Evelyn, Claude. Electric typewriter. 3,160,257, 12-8-64, Cl. 197-14.
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- Devereaux, Harry L., Jr., to United States of America, Navy. Film-strip density curve plotting device. 3,141,727, 7-21-64, Cl. 346-29.
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- Deverell, Harry T., to The Kent Mfg. Co. Tape-wire terminal connector. 3,150,909, 9-29-64, Cl. 339-97.
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- Devery, Michael H., to Philco Corp. Refrigeration apparatus with defrost means. 3,119,240, 1-28-64, Cl. 62-156.
- Devery, Michael H., and G. Dickson, to Philco Corp. Self-defrosting refrigeration apparatus. 3,133,423, 5-19-64, Cl. 62-156.
- Devery, Michael H., and J. W. Cross, Jr., to Philco Corp. Refrigerator cabinet with inner door and hinge assembly. 3,157,447, 11-17-64, Cl. 312-329.
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- Devillard, Georges, to Codeco. Nozzle having a conveying inlet zone followed by a diverging outlet zone. 3,130,920, 4-28-64, Cl. 239-601.
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- Devine, Evelyn Y.: See—
- Devine, James H. and E. Y. 3,139,675.
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- Devine, James H. and E. Y. 3,160,055.
- Devine, Francis P., to Avco Corp. Motion transmitting means. 3,124,966, 3-17-64, Cl. 74-136.
- Devine, James H. and E. Y.: said J. H. Devine, assor. to D-Y Trust. Tool for locking, unlocking and extracting an expandable blind bolt. 3,139,675, 7-7-64, Cl. 29-240.
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- Devine, Patrick J., to Potter Electric Signal Co. Signalling apparatus. 3,149,320, 9-15-64, Cl. 340-261.
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- De Vines, Hollis L., to Schlage Lock Co. Key shut out for locks. 3,128,618, 4-14-64, Cl. 70-364.
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- De Vito, Joseph: See—
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- Teja, Jayanti D. 3,146,099.
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- Shokal, Edward C., Devlin, and Winkler. 3,156,674.
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- Devlin, Terrence. Cup and ball game apparatus. 3,126,204, 3-24-64, Cl. 273-98.
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- Devonshire, William H.: See—
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- De Vries, Machiel, to Ronette Piezo Electric Industrie, N.V. Stereophonic pick-up. 3,136,555, 6-9-64, Cl. 274-37.
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- Dew, John N., and W. L. Martin, to Continental Oil Co. Method of conducting in situ combustion. 3,141,502, 7-21-64, Cl. 166-11.
- Dew, John N., J. D. Alexander, and W. L. Martin, to Continental Oil Co. Combination in situ combustion-aqueous medium drive oil recovery method. 3,153,448, 10-20-64, Cl. 166-2.
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- De Wald, Horace A., to Parke, Davis & Co. Trifluoroacetamide and methanesulfonamide compounds. 3,156,694, 11-10-64, Cl. 260-294.8.
- De Wald, Horace A., to Parke, Davis & Co. Enolic ethers and esters. 3,157,664, 11-17-64, Cl. 260-295.
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- Dewan, John T., to Schlumberger Well Surveying Corp. Semiconductor junction device for monitoring radio-activity in a well logging sonde. 3,158,743, 11-24-64, Cl. 250-83.3.
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- Dewas, Raymond. Device for controlling the weft in continuous-feed weaving machines. 3,158,182, 11-24-64, Cl. 139-370.
- Dewees, Vincent E., and G. A. Ferris, to Kenman Mfg. Co. Dispensing device with replaceable cartridge. 3,121,516, 2-18-64, Cl. 222-326.
- Dewelle, Claude H. A. Process and apparatus for the manufacture of paper yarn and the like. 3,145,524, 8-25-64, Cl. 57-58.49.
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- Dewey, John L., and R. C. Simon, to The Dow Chemical Co. Method of reinforcing green sand cores and molds with foam polymer coated metal elements. 3,126,595, 3-31-64, Cl. 22-194.
- Dewez, Fernand J., Jr., to United States Steel Corp. Method of heat-treating railroad wheels. 3,154,441, 10-27-64, Cl. 148-143.
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- Shapiro, Hymin, De Witt, and Brown. 3,152,157.
- De Witt, Henry C., to United States of America, Navy. Drive means for sectors of step twist rotary joint. 3,138,769, 6-23-64, Cl. 333-98.
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- De Witte, John T., to General Motors Corp. Defrosting with circulating air. 3,126,716, 3-31-64, Cl. 62-156.
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- De Woskin, Irvin S., to Beltz Corp. Fastening device. 3,157,928, 11-24-64, Cl. 24-150.
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- Dexter, Martin, and M. Knell, to Geigy Chemical Corp. Substituted nitrile stabilizers. 3,139,451, 6-30-64, Cl. 260-465.
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- Dexter, Robert J. Mounting arrangement for paper supply roll. 3,134,554, 5-26-64, Cl. 242-68.3.
- Dexter, Robert J., to Crown Zellerbach Corp. Article collating apparatus. 3,135,176, 6-2-64, Cl. 93-93.
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- Rucker, John T., and Dexter. 3,140,152.
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- De Zubay, Egon A., and E. S. Schmitt, Jr., to Atlantic Research Corp. Method for determining settling in dispersions. 3,159,999, 12-8-64, Cl. 73-53.
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- Dhonau, Herman B. C., to General Motors Corp. Air driven turbine. 3,154,150, 10-27-64, Cl. 170-68.
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- Dielelectric Products Engineering Co., Inc.: See—
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- Dieman, Edgar A., to Standard Oil Co. System for accelerated condensation corrosion. 3,131,029, 4-28-64, Cl. 23-253.
- Diemer, Gestinus: See—
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- Dierks, Gustave C. Modular ribbon-type gas burner. 3,142,331, 7-28-64, Cl. 158-99.
- Diesel, Hermann, to Rapp & Seidt Maschinenbau. Process and apparatus for breaking and teasing compressed fibrous material. 3,139,650, 7-7-64, Cl. 19-145.5.
- Dietch, Leonard, to Admiral Corp. Single diode FM stereo multiplex detector. 3,154,641, 10-27-64, Cl. 179-15.
- Dieter, Julian A., to R. A. Jones & Co., Inc. Article timing mechanism for packaging machines. 3,162,294, 12-22-64, Cl. 198-34.
- Dieter, Norman H., Jr., to Sonotone Corp. Sound record transducing devices for stereophonic and like records. Re. 25,597, 6-16-64, Cl. 179-100.41.
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- Dietert, Harry W., R. E. Steinmueller, and R. L. Dietert, to Harry W. Dietert Co. Pivoted pressure release valve for use with a permeability meter. 3,140,724, 7-14-64, Cl. 137-527.6.
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- Dietz, Wolfgang P., to Radio Corp. of America. Tuning system. 3,130,264, 4-21-64, Cl. 178-5.8.
- Dietze, George E. Razor blade sharpener. 3,153,307, 10-20-64, Cl. 51-205.
- Dietzel, Walter M., and H. Hillebrand, to Braunschweigische Maschinenbauanstalt A.G. Centrifugal apparatus. 3,151,072, 9-29-64, Cl. 210-380.
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Ditting, Adolf: See—

Engl, Walter. 3,159,196.

Dittman, Albert L., and R. I. Zager, to Halocarbon Products Corp. Preparation of perfluoro- and perchloro-fluoroacetyl chloride. 3,160,659, 12-8-64, Cl. 260-544.

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Boag, James C., and Dittmar. 3,119,871.

Ditto, Inc.: See—

Forester, Harold E., Smitzer, and Gross. 3,119,318.

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Raczynski, Walter A., and Quoss. 3,122,998.

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Dix, John L., to The American Sugar Co. Conveying system. 3,117,687, 1-14-64, Cl. 214-310.

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Dixl S.A.: See—

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Dittrich, Ferdinand J., to Metco Inc. Angular blast gas cap. 3,136,484, 6-9-64, Cl. 239-79.

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Dix, John L., to The American Sugar Co. Conveying system. 3,117,687, 1-14-64, Cl. 214-310.

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Djerassi, Carl, and J. Irlarte, to Syntex Corp. 17a-lower alkyl 17c-lower alkynyl and 17a-lower alkenyl derivatives of 19-nor-Δ⁴-androstene-17β-ol-3-one. 3,145,221, 8-18-64, Cl. 260-397.4.

Djerassi, Carl, and H. J. Ringold, to Syntex Corp. 6a,16a-dimethyl-Δ⁴-pregnen-17a-ol-3,20-dione-17-acylates. 3,158,629, 11-24-64, Cl. 260-397.4.

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- Dubeld, Willem. Cheese mold. 3,154,853, 11-3-64, Cl. 31-4.
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- Dubin, Alan S., to Esso Research and Engineering Co. Salt compositions and their preparation. 3,163,604, 12-29-64, Cl. 252-35.
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- Du Bois, Jean P. Self-cleaning hair brushes. 3,140,499, 7-14-64, Cl. 15-160.
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- Du Broff, Warren. Case stacking apparatus. 3,156,365, 11-10-64, Cl. 214-6.
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- Dudley, Frank E. Motor vehicle light testing apparatus. 3,149,197, 9-15-64, Cl. 88-14.
- Dudley, Homer T. Apparatus for concrete building. 3,162,418, 12-22-64, Cl. 248-354.
- Dudley, Hudson L., H. F. Snelling, and A. M. Mahler, Jr., to Melpar, Inc. Heat transfer test device. 3,142,983, 8-4-64, Cl. 73-190.
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- Eckman, Gordon, to Kaynar Mfg. Co., Inc. Spring clip. 3,141,218, 7-21-64, Cl. 24-252.
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- Eclipse Fuel Engineering Co.: See—
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- Eclipse Sleep Products, Inc.: See—
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- Economos, Charles, and G. P. Vaillancourt. Staging. 3,135,351, 6-2-64, Cl. 182-57.
- Economou, Nicholas, and J. M. Hart, to Bell Aerospace Corp. Thrust propelled vehicle. 3,121,392, 2-18-64, Cl. 102-49.
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- Edberg, Kenneth G., to Minnesota Mining and Mfg. Co. Friction faced pulley. 3,142,192, 7-28-64, Cl. 74-230.7.
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- Edde, Herbert M., to Consolidated Foods Corp. Onion top and root trimmer. 3,122,189, 2-25-64, Cl. 146-83.
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- Eddy, Gaines W.: See—
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- Eddy Match Co. Ltd.: See—
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- Eddy, Theodore B., to Heli-Coil Corp. Jam clearing device. 3,134,939, 5-26-64, Cl. 318-475.
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- Edelberg, Alan K., J. S. Kamborian, and J. S. Kamborian, Jr., said Edelberg assor. to said J. S. Kamborian. Fastener with sharp base. 3,154,825, 11-3-64, Cl. 24-73.
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- Edell, Morton, to Hazel Bishop, Inc. Display package. 3,139,182, 6-30-64, Cl. 206-78.
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- Edelman, Frank H., to Radio Corp. of America. Method for electrodeposition nickel-iron alloys. 3,141,837, 7-21-64, Cl. 204-43.
- Edelman, Irving, to Index Industries, Inc. Apparatus for forming a closed loop of tape threaded through a buckle. 3,150,894, 9-29-64, Cl. 223-49.
- Edelson, Leon F., to United Electrodynamics, Inc. Amplitude controlled frequency modulated oscillator. 3,124,766, 3-10-64, Cl. 332-19.
- Edelstein, Bertram W., to The Bertlo Co., Inc. Curtain wall. 3,140,763, 7-14-64, Cl. 189-34.
- Edelstone, Sigmund E., and J. A. Liss, to Spra-Lok Corp. Self-locking snap-on container cap. 3,149,745, 9-22-64, Cl. 220-60.
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- Edesess, Beatrice: See—
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- Edge, Helen M.: See—
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- Edgerly, Glenn E., Jr., to United Aircraft Corp. D.C. induction pump. 3,154,017, 10-27-64, Cl. 103-1.
- Edgerton, Germeshausen & Grier, Inc.: See—
Barstow, Frederick E., and Lillioth. 3,152,215.
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Rothstein, Jerome. 3,148,276.
Ward, William A. 3,141,983.
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- Edinger, Joseph Y.: See—
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- Edinger, Ladislav L.: See—
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- Edinger, Lester D., and C. A. Harvey, to Minneapolis-Honeywell Regulator Co. Dirigible craft control apparatus and method. 3,132,828, 5-12-64, Cl. 244-77.
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Blaisdell, Sidney B., and Ensor. 3,147,580.
- Edmark, Karl W., Jr. to Physio-Control Co., Inc. Apparatus for measuring blood pressure and heartbeat pulses. 3,156,237, 11-10-64, Cl. 128-203.
- Edmison, Thomas F. K. Flight path control system. 3,160,369, 12-8-64, Cl. 244-77.
- Edmon, Achille, to Societe de Constructions Mecaniques et Aeronautiques de la Mayenne. Cropping machine. 3,163,069, 12-29-64, Cl. 83-303.
- Edmonds, Albert V.: See—
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- Edmonds, Lee O., and J. A. Shotton, to Phillips Petroleum Co. Method of sealing plastic film. 3,158,520, 11-24-64, Cl. 156-307.
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- Edmondson, Richard, to The National Machinery Co. Bolt making machine with pointer mechanism. 3,146,471, 9-1-64, Cl. 10-11.
- Edmonson, Daniel O. Sectional boat. 3,119,128, 1-28-64, Cl. 9-2.
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- Edmund, John R., to Westinghouse Air Brake Co. Water cooled air cooler. 3,151,672, 10-6-64, Cl. 165-143.
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- Edmunds, William H., to I-T-E Circuit Breaker Co. Panel-board locking means. 3,150,290, 9-22-64, Cl. 317-119.
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- Edmunson, Tillson H. Chain saw driving sprocket assembly. 3,144,782, 8-18-64, Cl. 74-243.
- Edmunson, Tillson H. Chain saw tooth. 3,155,129, 11-3-64, Cl. 143-135.
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- Edward, Robert M., Jr. Appliance switch stand. 3,141,937, 7-21-64, Cl. 200-61.58.
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- Edwards, Charles E., to Dayco Corp. Method and apparatus for forming foamed members. 3,152,361, 10-13-64, Cl. 18-4.
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- Edwards, Charles M., M. Kanes, P. F. Fischer, F. O. Geiger, M. S. Feder, and J. R. Farron, to United States of America. Navy. 3-D flight table. 3,158,018, 11-24-64, Cl. 73-1.
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- Edwards, George J., to General Electric Co. Electric lamp base. 3,131,986, 5-5-64, Cl. 339-146.
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- Edwards, James D., to Borg-Warner Corp. Fabric drying machine with timer control. 3,161,481, 12-15-64, Cl. 34-45.
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- Edwards, Kenneth F., and R. A. Vogel, Jr. Essex Wire Corp. Latch operated clutch with pump. 3,145,815, 8-23-64, Cl. 192-27.
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- Edwards, Lawrence J., to Callery Chemical Co. Preparation of trimethylborate. 3,128,299, 4-7-64, Cl. 260-462.
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- Edwards, Miles L. Heart valve with shielded sewing ring. 3,130,419, 4-28-64, Cl. 3-1.
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- Edwards, Russell K. Three-dimensional property indicating device. 3,145,482, 8-25-64, Cl. 35-18.
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- Edwards, Thomas R., Jr. Computing caliper. 3,154,673, 10-27-64, Cl. 235-151.
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- Edwards, William J., to The Singer Co. Sewing machine thread spool unwinder. 3,122,113, 2-25-64, Cl. 112-218.
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- Edwards, William R., and R. D. Wesselhoff, to Esso Research and Engineering Co. Regeneration of fat acid extracts of tertiary olefins including chilling of the regenerated acid. 3,129,265, 4-14-64, Cl. 260-677.
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- Egan, Edmond F., to Texaco Inc. Productivity well logging. 3,147,375, 9-1-64, Cl. 250-43.5.
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- Egbert, Delbert W. Drag static wheel balancer. 3,139,757, 7-7-64, Cl. 73-457.
- Egbert, Earl L., to General Motors Corp. Hydrodynamic torque transmitting device. 3,124,973, 3-17-64, Cl. 74-731.
- Egbert, John T., to Combustion Engineering, Inc. Heat exchanger arrangement. 3,144,902, 8-18-64, Cl. 165-7.
- Ege, Bendt C., to Midland-Ross Corp. Variable velocity constant exhaust system. 3,151,954, 10-6-64, Cl. 34-155.
- Ege, Hans, to Underwriters Safety Device Co. Bi-metallic circuit breaker snap reed. 3,141,080, 7-14-64, Cl. 200-113.
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- Egle, John E., to General Electric Co. Drain control system for a washing machine. 3,124,145, 3-10-64, Cl. 134-57.
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- Enders, Heinz W., R. Zorkendorfer, and G. Pusch, to Chemische Fabrik Pforsee G.m.b.H. Wash resistant finishing means and methods of manufacturing them. 3,133,035, 6-12-64, Cl. 260-29.4.
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Englert, Joseph A., J. P. Magos, and K. B. Bredtschneider, to Crane Co. Removable stuffing box T-bolt lug arrangement for valves. 3,162,455, 12-22-64, Cl. 277-105.

Englert, William J.: See—
Smith, John J., and Englert. 3,148,073.

Engles, Earl F., Jr., to The Dow Chemical Co. Skin packaging. 3,154,898, 11-3-64, Cl. 53-30.

Engles, Earl F., Jr., and D. A. Schmidt, to The Dow Chemical Co. Packaging tray. 3,151,799, 10-6-64, Cl. 229-25.

Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Packaging Corp. Device for storing articles along a conveyor. 3,122,229, 2-25-64, Cl. 198-35.

Engleson, Per T., to B. Engleson. Feeding device for small units, in particular a dispensing device for medicines, sweetening agents and the like. 3,141,570, 7-21-64, Cl. 221-104.

Engleson, Sixten, 1/2 to Flygt Pumpar, Aktiebolaget. Fluid flow check valves. 3,126,029, 3-24-64, Cl. 137-525.3.

Engleson, Bertha: See—
Engleson, Per T. 3,141,570.

Englhart, Leopold, F. Sommer, F. Schon, W. Lohs, F. Frey, and L. Holler, to Siemens & Halske Aktiengesellschaft. Electrical circuit wiring. 3,117,180, 1-7-64, Cl. 174-68.5.

Englis Electric Co. Ltd.: See—
Caldwell, John. 3,150,267.
Feenan, John, Jacks, and Betteridge. 3,148,257.

Englich, Alfred, K. Koch, R. Zimmermann, and M. Raiser, to Chemische Werke Albert. N-alkyl-2-benzoxazolyl urea compounds. 3,162,644, 12-22-64, Cl. 260-307.

Englich, Charles L.: Subsurface pumping unit. 3,118,382, 1-21-64, Cl. 103-46.

Englich, Charles L.: Hydraulic pressure boosting device. 3,135,210, 6-2-64, Cl. 103-49.

Englich, Charles L., and J. B. Woods. Free pump control system. 3,120,812, 2-11-64, Cl. 103-46.

Englich Drilling Equipment Co. Ltd.: See—
Walmsley, Frank, Procter, and Sanders. 3,138,212.

Englich, Edgar, Jr. Belt attached tape dispenser and cutter therefor. 3,125,264, 3-17-64, Cl. 225-78.

English Electric Aviation Ltd.: See—
Creasey, Raymond F., and Burgin. 3,130,944.

English Electric Co. Ltd.: See—
Ainsworth, John D. 3,119,958.
Ainsworth, John D. 3,119,959.

Antoszewski, Eugeniusz. 3,117,253.

Antoszewski, Eugeniusz, and Sherriff. 3,157,825.

Antoszewski, Eugeniusz, and Sherriff. 3,160,788.

Bedford, Leslie H. 3,124,961.

Bedil, Mustafa F. 3,160,838.

Clark, George. 3,130,022.

Creasey, Raymond F., and Cooper. 3,161,378.

Creasey, Raymond F., Walley, and Willox. 3,117,747.

Feenan, John, and Jacks. 3,120,593.

Forster, Vincent T. 3,129,876.

Gibson, John C. 3,119,583.

Gonek, Stanislaw M., Rowlinson, and Goldner. 3,163,737.

Peters, Walter E., and Mills. 3,155,158.

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Smith, John W. F. 3,141,995.

Walley, Gerald D., and Willox. 3,143,317.

English Electric Valve Co.: See—
Firmen, Jervois C. 3,155,869.

English Electric Valve Co. Ltd.: See—
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Hendry, Eric D. 3,134,826.
Sinclair, Ian R. 3,144,578.

English, Harvey W.: Drill grinding attachment. 3,121,983, 2-25-64, Cl. 51-219.

English, Lawrence P.: See—
Ritter, Ralph K., and English. 3,162,746.

English Numbering Machines Ltd.: See—
Harta, Emmerly I. 3,142,250.

English, Richard A.: See—
Brown, Earl L., Jr., and English. 3,140,591.

English, Richard B., to Industrial Brush Co. Brush strip construction. 3,137,021, 6-16-64, Cl. 15-182.

English Steel Corp. Ltd.: See—
Dadswell, Cyril J., and Whitehouse. 3,123,228.
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Whitehouse, Glenroy D., and Cooke. 3,133,647.

English, Thomas D., Jr., and D. C. Rich, to Pittsburgh Plate Glass Co. Working glass. 3,150,950, 9-29-64, Cl. 65-62.

English, William K.: See—
Nitzan, David, English, and Bennion. 3,138,788.

English, William K., to AMP Inc. Magnetic-core decoding device. 3,150,354, 9-22-64, Cl. 340-174.

Englund, Gosta R., and S. A. Ungman, to Dataregister, Svenska A.B. Data handling apparatus. 3,133,697, 5-19-64, Cl. 234-54.

Englund, James A.: See—
Vecchiarelli, Francis, and Englund. 3,156,295.
Miller, Leon C., Englund, and Vecchiarelli. 3,156,294.

Engsteth, Martin. Conveyor. 3,132,738, 5-12-64, Cl. 199-184.

Engström, Ake L., and J. Pütz, to Lumalampan Aktiebolag. Tubular electric furnace of the resistance type. 3,117,213, 1-7-64, Cl. 219-36.

Engström, Carl-Gunnar D. Arrangement in respirators. 3,126,001, 3-24-64, Cl. 128-29.

Engstrom, Carl J., to Royalmetal Corp. Stacking and gangling furniture construction. 3,159,425, 12-1-64, Cl. 297-248.

Engstrom, Irene M. Plant starter. 3,131,510, 5-5-64, Cl. 47-41.

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Fox, Robert P., and Engstrom. 3,148,778.

Enholm, Norman: See—
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Enk, Eduard, H. Jacob, and J. Nickl, to Wacker-Chemie G.m.b.H. Process for manufacturing high purity gallium arsenide. 3,129,059, 4-14-64, Cl. 23-204.

Enk, Eduard, F. Knorr, and H. Spes, to Wacker-Chemie G.m.b.H. Preparation of methyl-3-methoxypropionate from ketene and methylal with hexafluorophosphoric acid as a catalyst. 3,134,807, 5-26-64, Cl. 260-484.

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Enk, Eduard, J. Nickl, and H. Silbernagl, to Wacker-Chemie G.m.b.H. Process for the doping of silicon. 3,141,848, 7-21-64, Cl. 252-62.3.

Enk, Eduard, J. Nickl, and H. Silbernagl, to Wacker-Chemie G.m.b.H. Process for doping materials. 3,141,849, 7-21-64, Cl. 252-62.3.

Enk, Eduard, J. Nickl, and H. Teich, to Wacker-Chemie G.m.b.H. Apparatus for the continuous production of silicon chloroform and/or silicon tetrachloride. 3,148,035, 9-8-64, Cl. 23-284.

Enk, Eduard, G. Piekarski, and E. Wohlfarth, to Wacker-Chemie G.m.b.H. Process of polymerizing alkenes employing organometallic catalysts and hydrocarbon solvents. 3,162,621, 12-22-64, Cl. 260-82.5.

Enke, Kurt: See—
Altman, Werner E., Enke, and Burckhardt. 3,129,794.

Enloe, Kenneth M., to Kimberly-Clark Corp. Method of comprising stacks of creped paper tissues. 3,120,172, 2-4-64, Cl. 100-41.

Ennis, James G., to Cole Mfg. Co. Machine for installing clips in door jambs. 3,140,493, 7-14-64, Cl. 1-210.

Ennis, Olin N.: Shaft fluid seal and process of rebuilding the same. 3,123,364, 3-8-64, Cl. 277-1.

Ennis, Royce E., and L. H. Knabeschuh, to E. I. du Pont de Nemours and Co. Heat-stabilized chlorosulfonated polyethylene containing an epoxy compound and a phenol. 3,147,315, 9-1-64, Cl. 260-837.

Eno, Katsufumi. Computing scale mechanism. 3,120,288, 2-4-64, Cl. 177-26.

Eno, William F.: Device for cutting sheets. 3,130,622, 4-28-64, Cl. 83-529.

Enoch, Duard W., to Interstate Bakeries Corp. Sliced bread package. 3,146,111, 8-25-64, Cl. 99-173.

Enoch, Duard W., G. L. Scott, M. M. Huber, and C. Kieffer, to Interstate Bakeries Corp. Loaf colling bread molding machine. 3,116,703, 1-7-64, Cl. 107-4.

Enochian, Samuel H., to General American Transportation Corp. Multi-purpose railway cars of the piggyback type incorporating improved hand brake mechanisms. 3,163,128, 12-29-64, Cl. 105-368.

Enoksson, Bertil P., to Nitroglycerin Aktiebolaget. Inorganic nitrate explosive composition coated with hydrazine or guanidine compounds. 3,144,367, 8-11-64, Cl. 149-8.

Enomoto, Hajime: See—
Oshima, Shintaro, Enomoto, and Amano. 3,141,138.
Oshima, Shintaro, Enomoto, Shirai, and Koseki. 3,146,354.

Enos, Harold B., and K. K. Kellems, to Acme Appliance Mfg. Co. Adjustable floor guide for bypassing sliding doors. 3,132,371, 5-12-64, Cl. 16-90.

Enos, John P.: Buttonhole attachment for zigzag sewing machines. 3,121,410, 2-18-64, Cl. 112-77.

Enos, John P., and R. E. Johnson, to The Singer Co. Buttonhole gauges. 3,137,254, 6-16-64, Cl. 112-75.

Ensign-Bickford Co.: See—
Smith, John M. 3,155,038.

Ensink, Johannes, and W. Beijlink, to North American Phillips Co., Inc. Transmitting device. 3,131,352, 4-28-64, Cl. 325-64.

Ensink, Johannes, and P. G. F. Ploegert, to North American Phillips Co., Inc. Generator for producing a sequence of harmonic oscillations of a fundamental frequency. 3,134,915, 5-26-64, Cl. 307-106.

Enslin, Clifford O.: Method of providing a feed supplement for ruminants. 3,150,979, 9-29-64, Cl. 99-9.

Ensley, Glover C.: Cable reel jack. 3,120,358, 2-4-64, Cl. 242-129.6.

Ensley, Glover C.: Method of threading cable through conduit. 3,156,449, 11-10-64, Cl. 254-134.3.

Ensley, Maurice I.: Water spraying apparatus for a hand iron. 3,160,969, 12-15-64, Cl. 38-78.

Ensminger, Harvey W., to A. Z. Skeeter. Apparatus for testing and replacing defective well casing. 3,149,676, 9-22-64, Cl. 166-67.

Ensor, Alfred J.: See—
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Enström, Hans G., R. G. Fredriksson, R. A. I. Lundgren, and J. A. Nöjd, to Astra, Apotekarnes Kemiska Fabriker, Aktiebolaget. Automatic hypodermic syringe. 3,136,313, 6-9-64, Cl. 128-218.

Enström, Hans G., H. Barnieske, and R. K. E. Barkman, to Astra, Apotekarnes Kemiska Fabriker, Aktiebolaget. Hypodermic syringe. 3,155,093, 11-3-64, Cl. 128-218.

Entech Corp.: See—
Olsen, Robert A., and Nielsen. 3,134,340.

Enterprise Paint Mfg. Co.: See—
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Enterprise Railway Equipment Co.: See—
Dorey, George B. 3,138,116.
Dorey, George B. 3,138,117.
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Koranda, Clarence J., and Fritz. 3,162,490.

Entin, Leonard P.: See—
Smalley, Edwin P., Dawson, and Entin. 3,119,133.

Entler, Richard W.: See—
Rose, Ralph, Freeman, and Entler. 3,150,466.

Entrikin, Raymond A., to Patterson Industries, Inc. Impeller. 3,149,823, 9-22-64, Cl. 259-134.

Entwistle Mfg. Corp.: See—
Duff, Harold H. 3,131,884.

Entwistle, Norman: *See*—
Dost, Nicolaas, Van Der Plas, and Entwistle. 3,161,628.
Enz, Ulrich E.: *See*—
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Enzyme Malt Co. Ltd., The: *See*—
Dixon, Thomas R. 3,141,833.
Eodice, Robert A.: *See*—
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Eolkin, Dave, E. R. Aillard, L. H. Anderson, and J. R. Lovasz, to Gerber Products Co. Method of preparing a food product. 3,147,173, 9-1-64, Cl. 159-12.
Eonair, Inc.: *See*—
Lott, William G. 3,140,846.
Epes, William R. Apparatus for applying tire chains. 3,156,140, 11-10-64, Cl. 81-15.8.
Epler, John A.: *See*—
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Epoxyllite Corp., The: *See*—
Rejda, Ladislav J. 3,130,335.
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Epperly, Jean R.: *See*—
Hopkins, Thomas R., Rea, and Epperly. 3,123,463.
Epperly, William R., and R. R. Johnson, to Esso Research and Engineering Co. Purification of an organic material by distillation and adsorption. 3,132,079, 5-5-64, Cl. 202-67.
Eppert, Franklin P., to General Electric Co. Ballast apparatus for starting and operating electric discharge lamps. 3,131,112, 7-14-64, Cl. 315-231.
Eppes, William R.: *See*—
West, John A., and Eppes. 3,158,095.
Epple, A. S., Inc.: *See*—
Meyer, Sidney. 3,162,390.
Eppler, Richard A., to Corning Glass Works. Method of making crystalline mica bodies and products. 3,149,982, 9-22-64, Cl. 106-39.
Eppler, Richard A., to Corning Glass Works. Semicrystalline ceramic body and method of making it. 3,161,528, 12-15-64, Cl. 106-39.
Eppler, Richard A., J. F. MacDowell, and J. D. Stetler, to Corning Glass Works. Method of making crystalline mica bodies and products. 3,149,947, 9-22-64, Cl. 65-33.
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Kelso, Robert G., Eppley, and Potter. 3,158,585.
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Hayward, Charles M. 3,127,576.
Hayward, Charles M. 3,133,211.
Karsh, Herbert. 3,126,886.
Richman, Peter L. 3,143,708.
Epstein, Arnold, and S. M. Kniffay, to Monsanto Chemical Co. Thermoelectricity. 3,132,488, 5-12-64, Cl. 62-3.
Epstein, Arnold: *See*—
Hill, Dale E., and Epstein. 3,138,486.
Epstein, David P. Pop-up box. 3,132,741, 5-12-64, Cl. 206-45.13.
Epstein, Henry D., to Texas Instruments Inc. Circuit-breaker apparatus. 3,156,849, 11-10-64, Cl. 317-27.
Epstein, Henry D., to Texas Instruments Inc. Manufacture of snap-acting devices. 3,163,140, 12-29-64, Cl. 113-44.
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Epstein, Herman, to Omnitronics, Inc. Photoelectric tape reader. 3,124,875, 3-10-64, Cl. 235-61.11.
Epstein, Ira G., to E. I. du Pont de Nemours and Co. Production of uniformly pill-resistant polyamide fibers. 3,121,278, 2-18-64, Cl. 28-78.
Epstein, Martin, to American Cyanamid Co. Substituted tertiary phosphine oxides. 3,117,165, 1-7-64, Cl. 260-608.5.
Epstein, Martin E.: *See*—
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Epstein, Martin E., and A. W. Greenstreet, to Celanese Corp. of America. Spinning filaments from solutions in concentrated sulfuric acid of a polyamide and salt. 3,154,613, 10-27-64, Cl. 264-184.
Epstein, Morton B., to Colgate-Palmolive Co. Pressure dispenser with propellant developed in situ. 3,117,699, 1-14-64, Cl. 222-389.
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Buckler, Sheldon A., and Epstein. 3,142,685.
Buckler, Sheldon A., and Epstein. 3,145,234.
Epstein, Peter F., and G. P. Willsey, Jr., to Stauffer Chemical Co. S-5-bis(2,2-dialkyl-4,5-dihydro-1,3,2-dithiazol-5-yl)-1,2-ethanethiols. 3,152,159, 10-6-64, Cl. 260-440.
Epstein, Saul. Thermocouple reference junction. 3,126,743, 3-31-64, Cl. 73-359.
Epstein, Saul. Differential pressure transducer. 3,147,454, 9-1-64, Cl. 336-20.
Epsylon Research and Development Co., Ltd.: *See*—
Ujelski, Tadeusz. 3,147,473.
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Equipment Development Co., Inc.: *See*—
Harding, Edward M., Jr. 3,156,231.
Smith, Edmund G. 3,117,927.
Equipment Development Corp.: *See*—
Ebner, Merrill L., Krock, and Avery. 3,148,564.
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Krebs, Richard W. 3,134,734.
Equipment Mfg., Inc.: *See*—
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Equipment Research Co.: *See*—
Hebbard, Carl P. 3,150,649.
Equipto Electronics Corp.: *See*—
Fay, Lawrence J. 3,158,016.
Equitable Capital Corp.: *See*—
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Equitable Paper Bag Co.: *See*—
Canino, Leonard E. 3,129,848.
Davis, John S., and Grob. 3,119,484.
Davis, John S. 3,130,895.
Davis, John S. 3,144,815.
Davis, John S. 3,148,598.
Pearl, Curt C. 3,149,771.
Equitable Paper Bag Co., Inc.: *See*—
Davis, John S. 3,156,168.
Equity Financial Corp.: *See*—
Crane, Edward J., and Masters. 3,122,778.
Fox, Gaston M. 3,162,892.
Masters, Allen L., and Sharp. 3,132,372.
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Tate, Joseph B., Jr., and Erath. 3,162,119.
Erath, Louis W., to Test Equipment Corp. Source of combined alternating current and direct current voltage. 3,128,132, 4-7-64, Cl. 307-2.
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Miller, John C., and Erb. 3,157,561.
Erb, George H., to Velcro S.A. Separable fastener element. 3,147,528, 9-8-64, Cl. 24-204.
Erb, Richard B., and K. C. Weston, to United States of America, National Aeronautic and Space Administration. Heat shield. 3,130,940, 4-28-64, Cl. 244-1.
Erba, Carlo, S.p.A.: *See*—
Gibaldi, Piericola, Artini, Nannini, and Logemann. 3,118,888.
Erbach, Georg: *See*—
Schönenberger, Max, and Erbach. 3,148,141.
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Erbaugh, Lowell E.: *See*—
Dex, Oliver de S., Erbaugh, and Butler. 3,142,666.
Erbe, Julius & August, Kommanditgesellschaft: *See*—
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Erbsloh, Paul-Gunther, and H. Wilke, to Erbsloh, Julius & August, Kommanditgesellschaft. Apparatus for producing metal-clad extruded bodies. 3,139,983, 7-7-64, Cl. 207-4.
Erck, Louis, J., D. C. Violetta, and T. E. Ban, to The Cleveland Cliffs Iron Co. Agglomerating method and apparatus. 3,140,326, 7-7-64, Cl. 264-117.
Ercoli, Alberto. Oral compositions containing 3-enolethers of methyltestosterone. 3,121,042, 2-11-64, Cl. 167-74.
Ercoli, Alberto, to Vismara, Francesco S.p.A. 3-cyclopentyl and cyclopentenyl ethers of estrone and derivatives thereof. 3,159,543, 12-1-64, Cl. 167-74.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara S.p.A. Enol ethers of 3-keto-5 α -androstanes. 3,118,917, 1-21-64, Cl. 260-397.5.
Ercoli, Alberto, and R. Gardi. Method for the production of 4 α ,3,17-diketosteroids and intermediates obtained therein. 3,120,548, 2-4-64, Cl. 260-397.4.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara, S.p.A. Cycloalkenyl ethers of 17 β -hydroxy androstanes. 3,135,744, 6-2-64, Cl. 260-239.55.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara, S.p.A. 17 α ,21-alkoxy-methylenedioxy pregnenes and pregnadienes and process thereof. 3,139,425, 6-30-64, Cl. 260-239.55.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara, S.p.A. 17 α ,21-substituted methylenedioxy steroids and methods thereof. 3,147,249, 9-1-64, Cl. 260-239.55.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara S.p.A. 17-monoesters of 17 α ,21-dihydroxy steroids and process for the preparation thereof. 3,152,164, 10-6-64, Cl. 260-397.45.
Ercoli, Alberto, and R. Gardi, to Vismara, Francesco, S.p.A. 19-nitrosteroids and process for producing 19-norsteroids. 3,154,569, 10-27-64, Cl. 260-397.1.
Ercoli, Alberto, and R. Gardi, to Vismara, Francesco S.p.A. Process for the preparation of 17 α -ethynyl-19-norandrostene compounds. 3,159,620, 12-1-64, Cl. 260-239.55.
Erdelyi, Janos: *See*—
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Erdman, Donald C., to Automation Industries, Inc. Ultrasonic testing apparatus. 3,133,438, 5-10-64, Cl. 73-67.9.
Erdmann, Hans, to Walde Kohinoor, Inc. Retaining-ring dispensing and/or applicator devices. 3,134,168, 5-26-64, Cl. 29-212.
Erdmann, Hans, to Walde Kohinoor, Inc. Retaining ring dispensing and applying means. 3,137,932, 6-23-64, Cl. 29-211.

Erdmann, Hans, to Walde Kohinoor, Inc. Combination retaining-ring dispensing and applying means. 3,138,854, 6-30-64, Cl. 29-211.
Erdmenger, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Worm arrangement. 3,122,356, 2-25-64, Cl. 259-104.
Erdmenger, Rudolf, and W. Oetke, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for evaporating volatile constituents from plastic, elastic and viscous material. 3,118,744, 1-21-64, Cl. 34-183.
Erdos, John, to Inland Bed Co. Mobile bed. 3,159,852, 12-8-64, Cl. 5-136.
Erdosi, Pal: *See*—
Heller, Laszlo, Forgo, and Erdosi. 3,134,429.
Erekson, Arthur B., and S. A. Martz, to The Borden Co. Laminated dough. 3,142,573, 7-28-64, Cl. 99-90.
Ergott, Harold L., Jr., S. G. Linardos, and R. T. O'Connell, to International Business Machines Corp. Logic circuits with inversion. 3,152,264, 10-6-64, Cl. 307-88.5.
Erhard, Wolfgang A.: *See*—
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Erhardt, Louis, R. C. Devinney, Jr., and F. M. Wolff, to Century Lighting, Inc. Support for lighting and building fixtures and the like. 3,130,949, 4-28-64, Cl. 248-343.
Erhardt, Max. Means for supporting a Venetian blind slat during painting. 3,138,484, 6-23-64, Cl. 118-503.
Erichsen, Herman W.: *See*—
Danetz, Abraham I., Orlicchio, and Erichsen. 3,120,622.
Erickson, Arthur C. Salvage device for canned fluid residues. 3,156,270, 11-10-64, Cl. 141-106.
Erickson, Arthur E.: *See*—
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Erickson, Arthur E., R. J. Tull, and W. A. Sklarz, to Merck & Co., Inc. Phenazasiline compounds. 3,131,203, 4-28-64, Cl. 260-448.2.
Erickson, Bernard E.: *See*—
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Erickson, Carl E. Electric shaver. 3,154,851, 11-3-64, Cl. 30-41.5.
Erickson, Charles D., to A. O. Smith Corp. Variable ratio transmission apparatus. 3,135,125, 6-2-64, Cl. 74-194.
Erickson, Clifford A.: *See*—
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Erickson, Clifford E., and G. M. Stone, to General Electric Co. Clothes drying cabinet with a biased rotary drum. 3,155,462, 11-3-64, Cl. 34-82.
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Erickson, Gerald T. and R., to Snap Pac Corp. Continuous orienting and packaging machine for cans or the like. 3,144,740, 8-18-64, Cl. 53-48.
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Erickson, Henry, to Sinclair Research, Inc. Method of reactivating a cracking catalyst. 3,122,497, 2-25-64, Cl. 208-120.
Erickson, Henry, to Sinclair Research, Inc. Cracking catalyst demetallization. 3,147,228, 9-1-64, Cl. 252-412.
Erickson, Henry, to Sinclair Research, Inc. Artificially poisoning catalysts. 3,151,058, 9-29-64, Cl. 208-113.
Erickson, Henry, M. F. L. Johnson, and C. D. Keith, to Sinclair Research, Inc. Process for the preparation of a catalyst. 3,132,111, 5-5-64, Cl. 252-464.
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Erickson, Howard L., to The Dole Valve Co. Adjustable slug liquid dispenser. 3,162,336, 12-22-64, Cl. 222-309.
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Erickson, Julius L. E., J. Dorsky, and W. M. Easter, Jr., to The Givandan Corp. Process for preparing substituted cyclopentenones. 3,137,731, 6-16-64, Cl. 260-586.
Erickson, Lewis C., to National Iron Co. Reciprocating plate feeding device. 3,139,967, 7-7-64, Cl. 198-60.
Erickson, Norman B., to Chicago Musical Instrument Co. Electrical musical instrument. 3,139,477, 6-30-64, Cl. 84-126.
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Erickson, Reginald T. Method of heat recovery from waste gases containing vapor. 3,131,035, 4-28-64, Cl. 34-77.
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Erickson, Eric A., to General Electric Co. Panelboard switch unit. 3,134,877, 5-26-64, Cl. 200-153.
Erickson, Ernest A., to Esso Research and Engineering Co. Scraper launching mechanism. 3,158,888, 12-1-64, Cl. 15-104.06.
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Erickson, Walter M., to United States Gypsum Co. Ventilated ceiling structure using panel-supporting T-rails with valve controlled slots in pairs for admitting ventilating air. 3,127,827, 4-7-64, Cl. 93-40.
Erickson, Walter M., to United States Gypsum Co. Ceiling panel with prefabricated valved ports for controlled air circulation. 3,159,092, 12-1-64, Cl. 93-40.
Erickson, Arvid L., to Signode Steel Strapping Co. Strapping machine. 3,125,326, 3-17-64, Cl. 254-51.
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Erickson, Sten Y. Alkali metal monofluorophosphate and calcium carbonate dentifrice. 3,119,743, 1-28-64, Cl. 167-93.
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Erikson, Evans W., to Sundstrand Corp. Field circuit control. 3,132,297, 5-5-64, Cl. 322-59.
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Erikson, Herman E., to Polaroid Corp. Dispensing nozzle structure for photographic processing apparatus. 3,142,242, 7-28-64, Cl. 95-89.
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- Eriksson, Lars E. Method for deposition of a copper layer on a non-conductive material. 3,134,690, 5-26-64, Cl. 117-213.
- Eriksson, Rolf G., to G. E. Bjorklund. Rotary machine for use as a pump, compressor or motor. 3,118,388, 1-21-64, Cl. 103-161.
- Eriksson, Sven G. Device for sucking liquid, air and solid particles. 3,161,135, 12-15-64, Cl. 103-25.
- Erismann, Gerard, C. Maurer, and A. Rossel, to Erismann-Schinz S.A. Bearing for timepieces. 3,120,098, 2-4-64, Cl. 58-140.
- Erismann, Paul. Cabinet with a pivotable door and at least one drawer. 3,135,570, 6-2-64, Cl. 312-311.
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- Erkes, Pierre A., to Bureau d'Etudes Nucleaires en abregé B.E.N. Method of and apparatus for transferring a load between two fluid-containing reservoirs. 3,128,963, 4-14-64, Cl. 243-1.
- Erlanger, Bernard F., to United States of America, Navy. Chromogenic substrate for use in assaying enzymic activity. 3,144,484, 8-11-64, Cl. 260-562.
- Erlanger, Gustav. Device for facilitating iontophoresis treatment of eyes. 3,122,137, 2-25-64, Cl. 128-172.1.
- Erlanger, Ralph H., and J. W. Phillips, to United States of America, Navy. Automatic auxiliary fuel system. 3,136,507, 6-9-64, Cl. 244-135.
- Erle, Donald Z., and R. L. Vick, to United States of America, Navy. High-temperature gas-liquid accumulator. 3,153,428, 10-20-64, Cl. 138-31.
- Erlich, Victor L., to Reeves Brothers, Inc. Tobacco smoke filters. 3,144,025, 8-11-64, Cl. 131-208.
- Erlichman, Irving, to Polaroid Corp. Photographic apparatus. 3,152,529, 10-13-64, Cl. 95-13.
- Erlichman, Irving, to Universal Controls, Inc. Coin handling apparatus. 3,152,598, 10-13-64, Cl. 133-3.
- Erlinder, Atwood E., and A. Shayne. Container elevating and dumping mechanism for self-loading vehicle. 3,136,436, 6-9-64, Cl. 214-302.
- Ermecke, Albin, to Rich. Ermecke o.H.G. Liquid storing, dispensing and metering arrangement. 3,120,330, 2-4-64, Cl. 222-386.5.
- Erner, William E., and H. A. Green, to Air Products and Chemicals, Inc. Production of polyurethanes using an imidazole catalyst. 3,152,094, 10-6-64, Cl. 260-2.5.
- Ernest, William S., to Brooks Instrument Co., Inc. Mechanico-electric transducer. 3,143,718, 8-4-64, Cl. 330-30.
- Ernestus, Adolph W., to Lockheed Aircraft Corp. Roll-forming mill. 3,160,036, 12-8-64, Cl. 80-11.
- Erni, Enrico, to Gesellschaft der Ludw. von Roll'schen Eisenwerke A.G. Smoke hood for electric furnaces and the like. 3,138,649, 6-23-64, Cl. 13-15.
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- Ernisse, Paul J., to Eastman Kodak Co. Automatic take-up device. 3,132,574, 5-12-64, Cl. 95-31.
- Ernst, Adolphe O. G., J. P. J. Jardinier, and J. Rona, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Safety device, especially for aircraft servo-controls. 3,135,002, 6-23-64, Cl. 60-52.
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- Ernst, Alvin O. Angle iron brick laying guide and brackets therefor. 3,127,684, 4-7-64, Cl. 33-85.
- Ernst, John M., to American Machine & Foundry Co. Locking prevention means for gripper units. 3,138,379, 6-23-64, Cl. 273-43.
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- Frey, Karl, Ernst, and Fisch. 3,118,858.
- Porret, Daniel, Fisch, Batzer, and Ernst. 3,147,279.
- Ernst, Paul, and W. Fischer, to Wacker-Chemie G.m.b.H. Process for chemically curing cellulose acetates. 3,145,075, 8-18-64, Cl. 8-131.
- Ernst, William B. Laying cages. 3,119,375, 1-28-64, Cl. 119-48.
- Errede, Louis A., to Minnesota Mining and Mfg. Co. Aromatically unsaturated polymers and preparation thereof. 3,146,211, 8-25-64, Cl. 260-2.
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- Ertaud, André, to Societe Alsacienne de Constructions Mecaniques. Fluid-tightness device for the passage of a rotating shaft through a wall. 3,131,940, 5-3-64, Cl. 277-28.
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- Ertaud, André, J. Friberg, and P. Maginot, to Commissariat a l'Energie Atomique. Aerodynamic bearing. 3,143,382, 8-4-64, Cl. 308-122.
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- Erteszek, Olga, to Olga Co. Elasticized panty girdle. 3,142,300, 7-28-64, Cl. 128-524.
- Erteszek, Olga. Elasticized panty garment. 3,142,301, 7-28-64, Cl. 128-528.
- Erteszek, Olga, to Olga Co. Multiple purpose undergarment. 3,162,197, 12-22-64, Cl. 128-519.
- Ervin, Evander M., to The Terrell Machine Co. Self-adjusting indexing means for tubular saw machine. 3,163,190, 12-29-64, Cl. 143-85.
- Ervin, Harold D., to The Magnavox Co. Transient protection for power supply. 3,134,067, 5-19-64, Cl. 321-11.
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- Carriere, Maurice M., Casey, Ervine, Hamill, Schimpf, Smith, and Turner. 3,123,959.
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- Erwin, Charles W. Organoleptic compositions. 3,124,459, 3-10-64, Cl. 99-1.
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- Erwin, Harold E. Sheet aligning clamp. 3,161,166, 12-15-64, Cl. 113-99.
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- Erwin, John R., to General Electric Co. Power system with energy dividing means. 3,146,590, 9-1-64, Cl. 60-39.17.
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- Eschemmoser, Albert, and C. F. Seidel, deceased (by J. Diggelmann, administrator), to Firmenich & Cie. Cyclic ether of tetrahydropyran and process for the manufacture thereof. 3,161,657, 12-15-64, Cl. 260-345.1.
- Eschenburg, William A., and W. S. Taylor, to J. B. Post Co. Ice dispensing machine. 3,119,518, 1-28-64, Cl. 221-98.
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- Esopi, Aldo J. Tool for welding minute wire connections. 3,116,655, 1-7-64, Cl. 78-82.
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- Floyd, Don E., Ess, Keen, and Opie. 3,138,473.
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- Davidson, Richard H., Simon, and Esselstyn. 3,122,295.
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- Faulstich, George W. Bottle closure having tear strip and reclosure features. 3,120,900, 2-11-64, Cl. 215-46.
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- Faure, Henry. Universal ball joint. 3,128,613, 4-14-64, Cl. 64-21.
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- Dorros, Irwin, and Feiner. 3,118,134.
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- Felstein, Sumner S.: See—
- Cook, William A., and Felstein. 3,125,616.
- Felstone, Wolfe H., to Paul B. Elder Co. Relieving composition with non-ionic surface active agents. 3,152,043, 10-6-64, Cl. 167-56.
- Fels, Michael J., and F. C. Philpitt. Coin container device. 3,127,009, 3-31-64, Cl. 206-8.
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- Felssell, Wolfgang, to Siemens & Halske Aktiengesellschaft. Transistor for high frequency switching. 3,151,254, 9-29-64, Cl. 307-88.5.
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- Fekete, Frank, to H. H. Robertson Co. Polymerizable compositions of ethylenically unsaturated amides. 3,133,892, 5-19-64, Cl. 260-33.4.
- Fekete, Frank, to Union Carbide Corp. Pressure-sensitive organopolysiloxane elastomers and articles produced therefrom. 3,146,799, 9-1-64, Cl. 133-125.
- Felburn, John P. Animal hauling vehicles. 3,145,045, 8-18-64, Cl. 296-24.
- Felburn, John P. Tractor trailer dumping vehicle. 3,149,881, 9-22-64, Cl. 298-20.

- Felburn, John P. Running gear for vehicles. 3,151,854, 10-6-64, Cl. 267-52.
- Felburn, John P. Low-bed trailer with hinged gooseneck for unloading purposes. 3,151,884, 10-6-64, Cl. 280-423.
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- Feld, Jack, and D. W. Weiss, to Fairchild Stratos Corp. Rotary diaphragm pneumatic actuator. 3,137,214, 6-16-64, Cl. 92-48.
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- Feldermann, John B., to Walton Laboratories, Inc. Coupling structure for a float-valve assembly. 3,142,310, 7-28-64, Cl. 137-434.
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- Feldhake, Ralph H., to Reilly Tar & Chemical Corp. Process of preparing pyridyl alkyl ketones. 3,155,676, 11-3-64, Cl. 260-297.
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- Feldman, Samuel, H., to Clearaste Headwear, Inc. Glare-proof cap. 3,128,474, 4-14-64, Cl. 2-195.
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- Felmayer, John W., to United States of America, Navy. Panel illumination. 3,130,511, 4-28-64, Cl. 40-130.
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- Felix, Ernst, to Zellweger Ltd., Uster Factories for Apparatus and Machines. Means for averaging a variable function. 3,145,297, 8-18-64, Cl. 235-183.
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- Fella, James W., to Standard Oil Co. Method of removing oil from water. 3,146,185, 8-25-64, Cl. 208-48.
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- Felten & Guillaume Carlsberg A.G.: See—
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- Feltman, Charles. Hand operated toy electric bubble blower that is held in hand to operate. 3,123,936, 3-10-64, Cl. 46-6.
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- Felton, Bruce C., H. S. Hoffman, Jr., and A. S. Martello, to International Business Machines Corp. Magnetic memory sensing system. 3,122,724, 2-25-64, Cl. 340-174.
- Felton, John M. Resilient wheel for portable hospital cots, beds, wheelchairs, and the like. 3,154,127, 10-27-64, Cl. 152-102.
- Felton, Joseph. Method of treating coffee and products obtained thereby. 3,143,426, 8-4-64, Cl. 99-71.
- Felts, Carl F., Sr. Device for wiring beehive frames. 3,144,053, 8-11-64, Cl. 140-93.
- Felts, James A. Anesthetic vaporizer. 3,123,071, 3-3-64, Cl. 128-188.
- Felts, Wallace M., to Fruehauf Trailer Co. Cable operated vehicle loader. 3,142,397, 7-28-64, Cl. 214-302.
- Femrite, Merrill D., to Wentworth & Irwin, Inc. Dump body with radius side plates. 3,163,463, 12-29-64, Cl. 296-28.
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- Fender, Clarence L. Adjustable neck construction for guitars and the like. 3,143,023, 8-4-64, Cl. 84-293.
- Fender, Clarence L. Electric guitar incorporating pickup means adapted to minimize beating effects. 3,147,332, 9-1-64, Cl. 84-115.
- Fender, Clarence L. Tone control circuit. 3,147,447, 9-1-64, Cl. 330-180.
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- Fenkel, Stanley O., 1/2 to F. Minikes. Meat packaging tray. 3,155,303, 11-3-64, Cl. 229-25.
- Fenker, Grafton F. J., to Pennsylvania Refining Co. Hot metal working lubricant. 3,161,595, 12-15-64, Cl. 252-28.
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- Fenner, Terrence W., R. M. Reinhardt, and J. D. Reid, to United States of America, Agriculture. Process for the production of dyed cellulosic textile materials with wet and dry wrinkle resistance. 3,130,001, 4-21-64, Cl. 8-17.
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- Ferguson, Donald J. Cleaning shell for shotguns. 3,147,708, 9-8-64, Cl. 102-41.
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- Ferrell, Russell A., to H. H. Robertson Co. Connecting means for building panels. 3,139,961, 7-7-64, Cl. 189-88.
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- Ferri, Gustave L., Jr. Container with dispensing spout. 3,128,016, 4-7-64, Cl. 22-212.
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- Ferris, David R., to Kysor Heater Co. Thermostatic control valve. 3,135,495, 6-2-64, Cl. 251-366.
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- Findley, Samuel A., and W. B. Dull, to Kingston Products Corp. Electromagnetic relay assembly for indicating unbalance of a vibrating machine. 3,158,709, 11-24-64, Cl. 200-87.
- Findley, Thomas W.: See—
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- Starmann, Raymond W., and Findley. 3,119,711.
- Findley, Thomas W., J. L. Ohlson, and F. E. Kuester, to Swift & Co. Polyesters from epoxy-containing oleaginous materials. 3,155,696, 11-3-64, Cl. 260-404.8.
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- Fine, Laughton T., to Avco Corp. Gain compressed amplifier. 3,163,828, 12-29-64, Cl. 330-17.
- Fine, Ralph R. Laminated disposable broiling pads. 3,127,828, 4-7-64, Cl. 99-446.
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- Finesse Products, Inc.: See—
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- Finestone, Arnold B., to Westinghouse Electric Corp. Nitrogen coordinated silicon compounds. 3,133,108, 5-12-64, Cl. 260-448.2.
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- Finger, Charles E.: See—
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- Finger, Joseph S. Acoustical panel unit with porous resinous facing. 3,147,820, 9-8-64, Cl. 181-33.
- Finger, Joseph S. Decorating synthetic resin panel. 3,159,525, 12-1-64, Cl. 161-128.
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- Fingerhood, Stanford A., to Digitronics Corp. Common base amplifier resistively stabilized. 3,161,779, 12-15-64, Cl. 307-88.5.
- Fingerson, Leroy M., to The Regents of the University of Minnesota. High temperature probe. 3,138,025, 6-23-64, Cl. 73-339.
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- Fink, Austin J., to Westinghouse Electric Corp. Convertible drop-out fused circuit interrupters. 3,134,872, 5-26-64, Cl. 200-114.
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- Fink, Blanche E.: See—
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- Fink, Joel H., to Westinghouse Electric Corp. Electron discharge device. 3,128,410, 4-7-64, Cl. 313-243.
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- Fink, Richard R., to Heyman Mfg. Co. Strain relief collet. 3,123,662, 3-3-64, Cl. 174-65.
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- Fink, Robert R., and E. J. Zirkle, to General Electric Co. Mobile domestic refrigerator having front and top access. 3,153,918, 10-27-64, Cl. 62-443.
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- Finkle, Lewis C., to Wedglock Corp. of California. Nut runner attachment. 3,150,142, 11-10-64, Cl. 81-54.
- Finkle, Sam M. Fire detecting unit. 3,135,950, 6-2-64, Cl. 340-237.
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- Finley, Jack D., to Data Corp. Rocket propelled reconnaissance vehicle. 3,158,100, 11-24-64, Cl. 102-49.
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- Finucane, Thomas P., to General Foods Corp. Two-package angel food cake mix. 3,160,507, 12-8-64, Cl. 99-94.
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- Fiore, Joseph P., to The Rauland Corp. Manufacture of electron discharge devices. 3,130,474, 4-28-64, Cl. 29-25.17.
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- Fiore, Vincent J., to Foundation Specialties, Inc. Shaper for shaping conical tips on wood piles. 3,118,476, 1-21-64, Cl. 144-30.
- Fiorentini, Dino. Universal truck with steering and driving wheels. 3,134,455, 5-26-64, Cl. 180-79.2.
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- Fischer, Andrew P. Range ventilator. 3,130,661, 4-28-64, Cl. 98-115.
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- Fischer, Donald M., D. L. Kayser, and W. L. Kennedy, to Union Carbide Corp. Pressure fed liquid applicator. 3,145,411, 8-25-64, Cl. 15-552.
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- Fischer, Erich. Gripping device for suspending trousers, a woman's japon and the like. 3,117,705, 1-14-64, Cl. 223-95.
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- Fischer, Harry C., to Thermo-Craft Electric Corp. Durable anode protective system. 3,135,677, 6-2-64, Cl. 204-196.
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- Fischer, John J., to The Patterson-Kelly Co. Materials blending machine. 3,158,358, 11-24-64, Cl. 259-24.
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- Fischer, Paul E., W. A. Heatley, Jr., and F. A. Lambert, to Champlain-Zapata Plastics Machinery, Inc. Pre-expander for pellets of plastic material. 3,155,379, 11-3-64, Cl. 263-21.
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- Fleissner, Gerold, to Fleissner G.m.b.H. Spreading device for tubular materials. 3,119,168, 1-28-64, Cl. 26-55.
- Fleissner, Gerold, to Fleissner Gesellschaft mit beschraenkter Haftung. Drum sieve driers. 3,132,931, 5-12-64, Cl. 34-115.
- Fleissner, Gerold, to Fleissner & Co. G.m.b.H., Firma. Drying of layers of granular and other comminuted material. 3,151,955, 10-6-64, Cl. 34-164.
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- Fordyce, Maurice E., to Ford Motor Co. Drain tube assembly. 3,143,373, 8-4-64, Cl. 296—107.
- Fordyce, Reid G., and D. J. Thomas, to Fome-Cor Corp. Adhesive lamination. 3,149,020, 9-15-64, Cl. 161—161.
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- Foreman, Robert W., to The Standard Oil Co. Manufacture of dihydrocyanopyran. 3,153,052, 10-13-64, Cl. 260—345.1.
- Foreman, Robert W., and F. Veatch, to The Standard Oil Co. Electrolytic cell for the oxidation and reduction of organic compounds. 3,119,760, 1-28-64, Cl. 204—269.
- Foreman, Robert W., and F. Veatch, to The Standard Oil Co. Process for producing substituted guanamines. 3,155,661, 11-3-64, Cl. 260—249.9.

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- Frank, Abraham, G. F. Marette, and B. I. Parsegayan, to Sperry Rand Corp. Digital data analyzing devices. 3,119,011, 1-21-64, Cl. 235-92.
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- Frank, Abraham, and D. E. Keefer, to Sperry Rand Corp. Magnetic stepping circuit. 3,151,317, 9-29-64, Cl. 340-174.
- Frank, Donald F., and P. R. Olding, 33 1/4% to Robert C. Oliver. Self-cleaning water fountain. 3,150,638, 9-29-64, Cl. 119-72.
- Frank, George E., to Imperial-Eastman Corp. Valve with anti-torrefying coupling means. 3,126,194, 3-24-64, Cl. 251-148.
- Frank, George E., to Imperial-Eastman Corp. Manually operable tube cutter with movable cutter blade. 3,135,050, 6-2-64, Cl. 30-102.
- Frank, George E., to Imperial-Eastman Corp. Tube fitting having means to indicate complete assembly positions. 3,139,293, 6-30-64, Cl. 285-4.
- Frank, Joseph M.: See—
Boyer, Neil E., Crookston, and Frank. 3,153,834.
- Frank, Kurt: See—
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- Frank, Kurt, to Holophane Co., Inc. Fluorescent street lighting system. 3,123,308, 3-3-64, Cl. 240-25.
- Frank, Kurt, to Holophane Co. Shielding prism. 3,129,895, 4-21-64, Cl. 240-106.
- Frank, Kurt, to Holophane Co., Inc. Luminaire refractor. 3,149,787, 9-22-64, Cl. 240-106.
- Frank, Kurt, and V. S. Wince, to Holophane Co., Inc. Ceiling mounted light refractor. 3,150,833, 9-29-64, Cl. 240-106.
- Frank, Marcel, Societe Les Vaporisateurs: See—
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- Franco, Charlotte: See—
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- Franco & Demastri, Inc.: See—
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- Franco, Frank P., to Franco & Demastri, Inc. Billiard cue rack. 3,146,889, 9-1-64, Cl. 211-68.
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- Franssen Bros. Tool & Mfg. Co.: See—
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- Franson, Eugene J. Machine for driving posts. 3,155,173, 11-3-64, Cl. 173-37.
- Frane, John A.: See—
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- Frane, Orville A. Wiping cloth. 3,126,572, 3-31-64, Cl. 15-506.
- Frangos, John: See—
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- Frangos, John W. Load lifting mechanism. 3,125,235, 3-17-64, Cl. 214-512.
- Frangos, John W. Combination breadmaking table and power sifter. 3,129,167, 4-14-64, Cl. 209-315.
- Frank, Charles. Dehumidifying coil tube. 3,135,566, 6-2-64, Cl. 312-31.
- Frank, Charles. Holder for electronic components. 3,154,281, 10-27-64, Cl. 248-201.
- Frank, Charles. Threaded insert for blind hole. 3,160,188, 12-8-64, Cl. 151-41.73.
- Frank, Charles E.: See—
Nobis, John F., and Frank. 3,119,788.
- Frank, Dean. Ring game. 3,119,619, 1-28-64, Cl. 273-104.
- Frank, Donald H., to Nuclear-Chicago Corp. Automatic gas purge system for ionization chamber used in radioactive sample analysis. 3,155,829, 11-3-64, Cl. 250-83.6.
- Frank, Egon, to Loewe Opto Aktiengesellschaft. FM line division multiplex system having inputs superimposed with positive and negative D.C. voltages. 3,158,690, 11-24-64, Cl. 179-15.
- Frank, Elmer N. Combined barbecue grill and hand truck. 3,147,748, 9-8-64, Cl. 126-9.
- Frank, George D.: See—
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- Frank, Hans: See—
Rau, Christian A., Frank, and Bayer. 3,136,371.
- Frank, Johann E.: See—
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- Frank, John J., to The Frank Tea and Spice Co. Dispensing assemblies for containers. 3,140,804, 7-14-64, Cl. 222-480.
- Frank, Joseph R. Marking device with full ejector feed. 3,149,612, 9-22-64, Cl. 120-18.
- Frank, Laurence M., L. E. Marston, and J. A. Dubrof, to Olympic Mfg. Co. Vehicle washer. 3,134,117, 5-26-64, Cl. 15-21.
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- Frank, Marwood M.: See—
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- Frank, Milton A., Sr., to United States of America, Army. Tool holder and mount. 3,141,366, 7-21-64, Cl. 82-36.
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- Frank, Russell M., to Calumet & Hecla, Inc. Method of and apparatus for shrouding with flattened tube. 3,123,906, 3-10-64, Cl. 29-433.
- Frank, Sidney M., to Pullman Inc. Reducing corrosion in hydrogen production. 3,150,931, 9-29-64, Cl. 23-213.
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- Frank, W. R. Packaging Engineers, Inc.: See—
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- Franke, Horst, Weiss, and Prochnow. 3,154,361.
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- Weiss, Richard. 3,126,787.
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- Franke, Horst, R. Weiss, and C. Prochnow, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Flash lamp mounting means for cameras. 3,154,361, 10-27-64, Cl. 339-91.
- Franke, Milton W., to Westinghouse Electric Corp. Vacuum tight joint and method of making such joint. 3,147,361, 9-1-64, Cl. 219-117.
- Franke, Paul G., H. B. Pollard, and H. V. Rutkus, to Kimberly-Clark Corp. Cam controlled folding means for papermaking machine. 3,163,413, 12-29-64, Cl. 270-73.
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- Frankel Carbon & Ribbon Co.: See—
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- Frankel, Henry G.: See—
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- Frankel, John S., and H. Hirst, to S. Smith & Sons (England) Ltd. Servo systems. 3,123,752, 3-3-64, Cl. 318-18.
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- Frankel, Merwin, to Geigy Chemical Corp. Valve bag closure means. 3,162,354, 12-22-64, Cl. 229-62.5.
- Frankel, Milton B., to Aerojet-General Corp. N(silico-alkyl)-polynitro-alkyl amines and their preparation. 3,131,205, 4-28-64, Cl. 260-448.2.
- Frankel, Milton B., and K. Klager, to Aerojet-General Corp. Method of preparing polynitro-alkanes. 3,139,461, 6-30-64, Cl. 260-644.
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- Franklin, Burton P.: See—
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- Franklin, Carl, to American Pipe and Construction Co. Conduit joint and seal member therefor. 3,163,448, 12-29-64, Cl. 285-137.
- Franklin, Dwayne R., to United States of America, Air Force. Frangible tow target. 3,121,227, 2-11-64, Cl. 343-18.
- Franklin Electric Co., Inc.: See—
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- Franklin, Le Roy H.: See—
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- Franklin, Lester K. Cabinet for radio receiving sets. 3,156,508, 11-10-64, Cl. 312-7.
- Franklin, Luther N. Mining cutter. 3,131,915, 5-5-64, Cl. 262-33.
- Franklin, Matthew J., and P. W. Kao, to Cen-Vi-Ro Pipe Corp. Oscillating packer roller. 3,160,939, 12-15-64, Cl. 25-30.
- Franklin, Maurice G., to St. Joe Paper Co. Reinforced container for bulk materials. 3,145,900, 8-25-64, Cl. 229-14.
- Franklin, Maurice G., Jr., to St. Joe Paper Co. Partitioned container. 3,145,903, 8-25-64, Cl. 229-27.
- Franklin, Philip J., and M. Weinberg, to United States of America, Army. Composition for potting components of electric circuits. 3,130,173, 4-21-64, Cl. 260-33.6.
- Franklin, Richard E., and H. C. Fox, to Railway Maintenance Corp. Railway tie hauling apparatus. 3,162,145, 12-22-64, Cl. 105-355.
- Franklin, Richard L., J. R. Guseman, and E. A. Pelczarski, to United States Steel Corp. Method and composition for making carbonate-bonded agglomerates. 3,125,438, 3-17-64, Cl. 75-3.
- Franklin, Robert L., to National Distillers and Chemical Corp. Pneumatic de-blocker. 3,133,479, 5-19-64, Cl. 93-8.
- Franklin, Sherman. Swingable hanger sets. 3,118,544, 1-21-64, Cl. 211-102.
- Franklin, Wallace J., and A. F. Kossar, to Curtiss-Wright Corp. Air cushion vehicle construction including control valves. 3,150,731, 9-29-64, Cl. 180-7.
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- Frankoff, Michael G.: See—
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Frantz, Henry H. Receptacle filling device. 3,160,183, 12-8-64, Cl. 141-291.

Frantz, Hermann, and M. Kunert, to Edelman Gesellschaft m.b.H. Process for washing adducts of urea and straight-chain paraffins in the deparaffining of hydrocarbon oils. 3,117,923, 1-14-64, Cl. 203-25.

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Frantz, Raymond A., and R. N. Moore, to Monsanto Co. Dehydrogenation of saturated hydrocarbons. 3,148,228, 9-8-64, Cl. 260-683.3.

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Frantz, Tilo, R. Richter, and G. Bach, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for preparing free flowing finely divided cyanuric chloride. 3,141,882, 7-21-64, Cl. 260-248.

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Fransen, Erwin F., to A. Finkl & Sons Co. Method and apparatus for continuously tapping and degassing molten metal into ingot molds. 3,145,095, 8-18-64, Cl. 75-49.

Fransen, Gustav, to Klaus Nitz. Double twisting spindle system. 3,159,962, 12-8-64, Cl. 57-58.49.

Fransen, Russell W. Multipurpose work unit. 3,162,266, 12-22-64, Cl. 182-182.

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Fratantuno, Joseph, to Laboratory For Electronics, Inc. Apparatus for measuring the radioactivity of liquid samples. 3,141,977, 7-21-64, Cl. 250-106.

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Frazier-Nash, Archibald G. Load carrying devices for aircraft and other vehicles. 3,128,071, 4-7-64, Cl. 248-1.

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Frazza, Everett J., and L. Rapoport, to American Cyanamid Co. 1-arylamino-2,4-dicyanobutadienes and process for preparing same. 3,138,631, 6-23-64, Cl. 260-465.

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Fredd, John V., to Otis Engineering Corp. Elastic seal with expandable back-up member. 3,118,682, 1-21-64, Cl. 277-170.

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Frederickson, Lloyd C., to Wakefield Seafoods, Inc. Method for producing shelled crab claws. 3,135,992, 6-9-64, Cl. 17-45.

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Fredholm, Gunnar I. Transport-container for transport of laundry-goods from a washing-machine into a centrifuge. 3,139,207, 6-30-64, Cl. 220-20.

Fredholm, Gunnar I. Apparatus for subsequent drying of articles treated in a mangle. 3,160,968, 12-15-64, Cl. 38-57.

Fredman, Harry. One-piece belt-type bedding carrier. 3,118,151, 1-21-64, Cl. 5-238.

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Fredrickson, Gustav O., to The Superior Electric Co. Motor control circuit. 3,159,779, 12-1-64, Cl. 318-171.

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Freed, George H. Revolver firing action means. 3,158,948, 12-1-64, Cl. 42-65.

Freed, George H. Revolver firing action means. 3,158,949, 12-1-64, Cl. 42-65.

Freed, George H. Firing mechanism for revolvers. 3,158,950, 12-1-64, Cl. 42-65.

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- French, Walter K., to International Business Machines Corp. Associative memory. 3,131,291, 4-28-64, Cl. 235-61.11.
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- Frenk, Helmut, H. Lüsse, and R. Mees, to Ernst Leitz Gesellschaft mit beschränkter Haftung. Motion picture projector operable on different A.C. sources. 3,140,637, 7-14-64, Cl. 88-17.
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- Frerotti, Edmondo, and G. Landucci, to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Method and apparatus for baking anodes with preheating of cathodic sole for electrolytic furnaces. 3,119,755, 1-28-64, Cl. 204-67.
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- Fresard, Marcel, and F. Bucher, to Meffina S.A. Washing machine. 3,117,436, 1-14-64, Cl. 68-183.
- Fresard, Marcel A., to Aesup Etablissement. Electrically-operated toothbrush. 3,119,135, 1-28-64, Cl. 15-22.
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- Fuller, Hubert D., to The General Electric Co. Ltd. Quarter-wave reflecting plate with support core of resin-impregnated paper honeycomb. 3,137,000, 6-9-64, Cl. 343-756.
- Fuller, James L., and C. W. Tomlinson, to Acme Visible Records, Inc. Adjustable desk device. 3,124,084, 3-10-64, Cl. 108-64.
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- Fulmer, Richard W., and E. R. Rogier, to General Mills, Inc. Cyanoethylated aminoalcohol amines. 3,158,643, 11-24-64, Cl. 260-465.
- Fulop, Charles. Impact drill. 3,133,601, 5-19-64, Cl. 173-97.
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- Fulton, Allen L.: See—
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- Fulton Co., The: See—
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- Fulton Engineering Co., Inc.: See—
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- Fulton, Howard A., to Mansfield Sanitary, Inc. Close-coupled tank to water closet. 3,142,845, 8-4-64, Cl. 4-12.
- Fulton, Howard A., L. I. Kerr, and C. D. Obrecht, to Mansfield Sanitary, Inc. Temperature control relief valve. 3,154,248, 10-27-64, Cl. 236-21.
- Fulton, J. W., Jr.: See—
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- Fulton, James F., to Peter's Bag Corp. Luggage construction. 3,141,536, 7-21-64, Cl. 190-41.
- Fulton, James F., to W. W. Randall. Encouragement savings bank. 3,143,285, 8-4-64, Cl. 232-5.
- Fulton, Nathaniel D., to Thiokol Chemical Corp. Pilot escape device for aircraft. 3,116,900, 1-7-64, Cl. 244-122.
- Fulton, Samuel K. Mooring whipl. 3,120,831, 2-11-64, Cl. 114-230.
- Fultz, Harry E. School bus stop signal. 3,133,265, 5-12-64, Cl. 340-83.
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- Fundingsland, John O. Hi-fidelity speaker. 3,146,848, 9-1-64, Cl. 181-31.
- Fungaroli, Anthony F. Mop wringing mechanism. 3,150,400, 9-29-64, Cl. 15-260.
- Funk, Charles F., and J. E. J. L. York, and E. Funk, deceased (by M. B., C. F., J. E. G. L., and M. M. Funk, heirs). Method of repairing defective pump casings. 3,136,013, 6-9-64, Cl. 22-203.
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- Funk, Charles R., to Lukens Steel Co. Steel casting process and apparatus. 3,141,767, 7-21-64, Cl. 75-129.
- Funk, Charles R., and D. K. Matthews, to Lukens Steel Co. Exothermic inserts for hot tops. 3,159,887, 12-8-64, Cl. 22-147.
- Funk, Eugene: See—
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- Funk, Gilbert R., to Waukesha Foundry Co. Fluid controlled variable output pump. 3,155,042, 11-3-64, Cl. 103-42.
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- Funk, Günther: See—
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- Funk, Guy L.: See—
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- Funk, Josef, KG, Firma: See—
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- Funk, Margaret M.: See—
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- Funk, Marguerite B.: See—
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- Funk, Richard S. Device to utilize heat from boiler due to heat additional spaces in home. 3,124,197, 3-10-64, Cl. 165-122.
- Funk, Rudolph. Apparatus for cross folding flexible sheets. 3,117,777, 1-14-64, Cl. 270-81.
- Funk, William: See—
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- Funk, Birger, and R. Samuelson, to Allmanna Svenska Elektriska Aktiebolaget. Gas-filled liquid cathode elongated rectifier having condenser chamber and automatic tank cooling means therefor. 3,157,820, 11-17-64, Cl. 315-113.
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- Funk, Lawrence J., and Blackburn (F. M. Funke, executrix), and F. Blackburn, said Blackburn assor. to said Funk. Sandwich grills. 3,121,385, 2-18-64, Cl. 99-374.
- Funk, John L., and R. E. Boullis, to West Virginia Pulp and Paper Co. Display stand. 3,141,555, 7-21-64, Cl. 211-133.
- Fuqua, Lloyd T., to General Motors Corp. Mirror support for a remotely controlled rear view mirror mechanism. 3,149,812, 9-22-64, Cl. 248-288.
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- Furbacher, John H., to Ford Motor Co. Automatic choke. 3,158,322, 11-24-64, Cl. 236-48.

- Furber, William A. Lifting device. 3,141,695, 7-21-64, Cl. 294-16.
- Furby, Neal W., M. A. Pino, and R. L. Peeler, to California Research Corp. Organosilicon fluid composition. 3,146,206, 8-25-64, Cl. 252-78.
- Furey, Michael J., and J. A. Wilson, to Esso Research and Engineering Co. Apparatus for measuring friction and contact between sliding lubricated surfaces. 3,129,580, 4-21-64, Cl. 73-10.
- Furkert, Herbert, to Chemiefau Dr. A. Zieren G.m.b.H., Fa. Recovery of products from waste gas. 3,119,663, 1-28-64, Cl. 23-175.
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- Furman, Herbert, to General Motors Corp. Wheel cover. 3,146,032, 8-25-64, Cl. 301-37.
- Furman, Murray. Combination of strongbox and anchoring means. 3,146,739, 9-1-64, Cl. 109-32.
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- Furniss, William E., to Westinghouse Electric Corp. Remote metering system. 3,121,859, 2-18-64, Cl. 340-150.
- Furry, Warren G., Jr., to Lockheed Aircraft Corp. Multi-section aircraft door. 3,119,441, 1-28-64, Cl. 160-212.
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- Furst, Andor, W. Meier, K. Meyer, C. Gavilanes, and R. Rees, to Hoffmann-La Roche Inc. Uzarigenin glycosides. 3,148,182, 9-8-64, Cl. 260-210.5.
- Furst, Mark. Clamping device. 3,157,397, 11-17-64, Cl. 269-86.
- Furst, Stefan, to W. Reiners. Automatic yarn-coil winding machine. 3,121,540, 2-18-64, Cl. 242-35.5.
- Furst, Stefan, to W. Reiners. Method and means for preparing spinning cops for rewinding. 3,136,494, 6-9-64, Cl. 242-35.6.
- Furst, Stefan, to W. Reiners. Yarn-guiding device for coil-winding machines. 3,136,495, 6-9-64, Cl. 242-43.2.
- Furst, Stefan, to W. Reiners. Yarn spinning and winding apparatus. 3,154,904, 11-3-64, Cl. 57-1.
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- Furst, Stefan, and W. Maassen, to W. Reiners. Spool-holding device for textile machines, particularly winding machines. 3,131,885, 5-5-64, Cl. 242-129.
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- Fux, Aime, to Burroughs Corp. Pneumatic sheet stacking mechanism. 3,120,384, 2-4-64, Cl. 271-68.
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- Gaumann, Ernst, and V. Prelog, to Ciba Corp. Antibiotic angolamyacin and method of production. 3,131,127, 4-28-64, Cl. 167-65.
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- Gaffney, John E., Jr., to International Business Machines Corp. Information storage system. 3,140,473, 7-7-64, Cl. 340-174.
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- Gage, Robert M., to Union Carbide Corp. Method for furnacing conductive materials. 3,147,330, 9-1-64, Cl. 13-9.
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- Gage, William P., and F. Jaffe, to W. R. Grace & Co. Production of formaldehyde polymers. 3,140,271, 7-7-64, Cl. 260-67.
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- Gagliardi, Domenick D. Method of ornamenting preformed polyolefin substrates with coating containing water insoluble pigments and resultant article. 3,140,194, 7-7-64, Cl. 117-15.
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- Gagliardi, Domenick D., and W. J. Jutras, Jr., to Argus Chemical Corp. Tributyltin salt of levulinic hydantoin. 3,117,130, 1-7-64, Cl. 260-299.
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- Gagnan, Emile, and J. Y. Gousteau, to La Spirotechnique. Acoustic warning assembly for skin diving apparatus. 3,144,171, 8-11-64, Cl. 222-3.
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- Gagniere, Claude, to Charbonnages de France. Electric network protection device. 3,119,050, 1-21-64, Cl. 317-29.
- Gagniere, Claude, and P. Belugou, to Charbonnages de France. Devices for detecting earth faults in electric distribution networks. 3,158,785, 11-24-64, Cl. 317-18.
- Gagnon, George A., to Warwick Electronics Inc. Stand up insertion heads. 3,149,340, 9-22-64, Cl. 1-323.
- Gagnon, George A., and M. R. Parke, to Warwick Mfg. Corp. Pin inserting machine. 3,134,982, 6-2-64, Cl. 1-28.
- Gagnon, Pierre, and P. Laforest, to Faco Corp. Elevator system. 3,149,732, 9-22-64, Cl. 214-6.
- Gaido-Lingle Co., Inc.: See—
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- Gaido, San J., to Gaido-Lingle Co., Inc. Butt edge joining of enamel coated pipes. 3,138,861, 6-30-64, Cl. 29-475.
- Gailliot, Paul, and J. G. Baget, to Rhone-Poulenc S.A. 4-quinolyl-aminoalkylamino derivatives. 3,126,384, 3-24-64, Cl. 260-288.
- Gailliot, Paul, J. Baget, and P. Sarret, to Rhone-Poulenc S.A. Process for preparing S-oxides of 2-lower alkyl isothionicotinamides. 3,156,693, 11-10-64, Cl. 260-294.8.
- Gaines, Albert L.: See—
- Loew, Harold F., Gaines, Bullen, and Hargis. 3,162,177.
- Gaines, Robert W.: See—
- Arbit, Harold A., Brissette, and Gaines. 3,131,113.
- Geary, Daniel C., and Gaines. 3,121,517.
- Gaines, William C., Jr., to American Air Filter Co., Inc. Steam trap. 3,162,209, 12-22-64, Cl. 137-190.
- Gainesville Machine Co., Inc.: See—
- Harben, Grover S., Jr. 3,134,135.
- Galney, John T., and W. B. Galney, to W. B. Galney assignor to J. T. Galney. Machine for use in practicing football blocking. 3,144,251, 8-11-64, Cl. 273-55.
- Galney, Walter B.: See—
- Galney, John T., and W. B. Galney. 3,144,251.
- Galre, Paul E. Spinning reel pickup safety device. 3,133,713, 5-19-64, Cl. 242-84.2.
- Gaiser, August: See—
- Sauer, Hans, Gaiser, and Weber. 3,153,704.
- Gaitten, Walden M., to Soderhamn Machine Mfg. Co. Unloaders for lumber mills. 3,128,872, 4-14-64, Cl. 198-188.
- Galajickian, Haig. Prefabricated expandable building construction. 3,160,248, 12-8-64, Cl. 189-34.
- Galanor, Thomas R.: See—
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- Galanor, Thomas R., to Theodore E. Ferris & Sons. Tank washing system. 3,121,027, 2-11-64, Cl. 134-10.
- Galanor, Thomas R., to Theodore E. Ferris & Sons. Tank washing system. 3,140,828, 7-14-64, Cl. 239-227.
- Galantay, Eugene E.: See—
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- Galat, Alexander. Compounds produced by interaction of certain 10-substituted phenothiazines and certain 5,6-disubstituted malonylureas. 3,152,125, 10-6-64, Cl. 260-243.
- Galati, Vincent J., and E. L. Herd, to United States of America, Air Force. Inclined chassis mounting for electronic equipment. 3,162,498, 12-22-64, Cl. 312-323.
- Galbierz, Jerome J., and P. J. Ditto, to R. C. Can Co. Collision-proof paper or fiber walled container. 3,162,348, 12-22-64, Cl. 229-5.6.

- Galbraith, D. W.: See—
- Taylor, Herbert S. 3,153,578.
- Galbraith & Sulley Ltd.: See—
- Bachrich, Jakob L. 3,149,932.
- Gale, Alfred J.: See—
- Denholm, Alec S., and Gale. 3,126,439.
- Gale, Alfred J., to High Voltage Engineering Corp. Brushless high voltage D.C. electrostatic machine. 3,143,671, 8-4-64, Cl. 310-6.
- Gale, Donald J.: See—
- Boyd, Samuel N., Jr., Gale, and Starn. 3,117,957.
- Gale, Donald J., and H. H. Kuhn, to Deering Milliken Research Corp. Polyethyleneoxy azo fugitive tints. 3,154,534, 10-27-64, Cl. 260-198.
- Gale, Ronald, to Victor Products Corp. Dispensing machine for beverages in bottles or cans. 3,158,247, 11-24-64, Cl. 194-10.
- Gale, Sydney L.: See—
- Klingensmith, John A., Speight, and Gale. 3,121,538.
- Klingensmith, John A., Speight and Gale. 3,125,133.
- Gale, William J., to Trojan Ltd. Tractor attachments. 3,155,415, 11-3-64, Cl. 294-67.
- Gale, William S., to McCord Corp. Soldering flux and method. 3,119,179, 1-28-64, Cl. 29-495.
- Galejs, Janis, to Sylvania Electric Products Inc. Frequency modulation distance indicator. 3,132,340, 5-5-64, Cl. 343-14.
- Galen Enterprises, Inc.: See—
- Velonis, Stamatis G., Schnitzer, and Richardson. 3,148,230.
- Galey, William F.: See—
- Huffman, Charles O., Mission, and Galey. 3,146,926.
- Gall, Robert, to General Motors Corp. Refrigerating apparatus. 3,135,460, 6-2-64, Cl. 230-138.
- Gallin, Joachim, and M. Dohr, to Henkel & Cie G.m.b.H. Process for the preparation of modified melamine resins. 3,130,178, 4-21-64, Cl. 260-67.6.
- Gallion, Jeffrey Mfg. Co.: See—
- Corbin, Eber P. 3,126,997.
- Galls Electric & Machine Co.: See—
- Ambrose, Frederick S. 3,119,275.
- Gall, John F., to Pennsalt Chemicals Corp. Chemical cutting and working. 3,128,824, 4-14-64, Cl. 166-35.
- Gall, William: See—
- Thorne, Robert B., and Gall. 3,144,255.
- Gallaccio, Anthony, and R. W. Wick, to United States of America, Army. Dulling hard aluminum oxide coatings on aluminum-rich basis metals. 3,140,245, 7-7-64, Cl. 204-35.
- Gallacher, Andrew F., to Canada Iron Foundries, Ltd. Electric conducting means for metal pipes. 3,152,220, 10-6-64, Cl. 174-84.
- Gallagher, Bernard S.: See—
- Emmons, William J., and Gallagher. 3,141,581.
- Gallagher, Cornelius A., and J. F. McDonald, to Servo Corp. of America. Railroad-wheel trip. 3,151,827, 10-6-64, Cl. 246-249.
- Gallagher, Edward F., to Gallagher-Kaiser Corp. Spray booth. 3,119,675, 1-28-64, Cl. 55-257.
- Gallagher, Frank L., P. T. Spottiswoode, and N. L. Sherman, to Rohm & Haas Co., and to St. Regis Paper Co. Masking paper having a rugose coating of rubber latex. 3,152,921, 10-13-64, Cl. 117-68.5.
- Gallagher, George A.: See—
- Albin, Jerry R., and Gallagher. 3,136,745.
- Gallagher, Gerald T., and E. J. Elliott, to FMC Corp. Process of alkaline scouring and peroxide bleaching of gray cotton cloth. 3,148,019, 9-8-64, Cl. 8-111.
- Gallagher, Helen S. Reversible shirt dickey. 3,155,985, 11-10-64, Cl. 2-115.
- Gallagher, James A., F. C. La Motta, and W. L. Van Nostrand, Jr., to Esso Research and Engineering Co. Heat stabilizing vinyl resins. 3,125,549, 3-17-64, Cl. 260-45.7.
- Gallagher, James P.: See—
- Foster, Robert L., Anderson, and Gallagher. 3,151,059.
- Reed, Herbert B., and Gallagher. 3,149,217.
- Gallagher, James P., to Sinclair Research, Inc. Selective isomerization process. 3,146,279, 8-25-64, Cl. 260-683.65.
- Gallagher, John J., to Poor & Co. Method of making tie plate bearing rail anchors. 3,136,048, 6-9-64, Cl. 29-417.
- Gallagher, John P. Method of making plastic containers. 3,148,103, 9-8-64, Cl. 156-224.
- Gallagher-Kaiser Corp.: See—
- Gallagher, Edward F. 3,119,675.
- Gallagher, Raymond A.: See—
- Fritz, Harry E., Gallagher, Galloway, Kerr, Plumb, Rittenhouse, and Sinnamon. 3,117,597.
- Gallagher, Robert T., to Carey-McFall Co. Connector. 3,145,443, 8-25-64, Cl. 24-239.
- Gallagher, Thomas H. Jointer and raking tool. 3,155,997, 11-10-64, Cl. 15-105.5.
- Gallamos, Constancio R. Lossproof pen band. 3,157,925, 11-24-64, Cl. 24-13.
- Galland-Henning Mfg. Co.: See—
- Schwartz, Roy C. 3,159,086.
- Gallant, Reginald R., and W. M. Preston, to Underwood Corp. Platen adjusting means for typewriters. 3,154,184, 10-27-64, Cl. 197-149.
- Gallard, Jean H. M., and P. L. Sigel, to Compagnie des Machines Bull. Tape feeding apparatus. 3,162,345, 12-22-64, Cl. 226-95.
- Gallas, Leonard E., to Control Switch Division of Controls Co. of America. Positive feel actuator. 3,121,777, 2-18-64, Cl. 200-172.
- Gallaugh, Thomas L., to World Marine, Inc. Boat anchor. 3,158,127, 11-24-64, Cl. 114-206.
- Galloway, Norris W., to American Mfg. Co. of Texas. Automatic counterbalance for pumping unit including hydraulic brake. 3,130,601, 4-28-64, Cl. 74-590.
- Galloway, Norris W., and J. E. Lott, to American Mfg. Co. of Texas. Multiple stage pumping unit. 3,143,968, 8-11-64, Cl. 103-5.
- Galloway, William S.: See—
- Burnell, Maurice R., Foster, and Galloway. 3,134,898.
- Galloway, William S., R. A. Foster, J. C. Sternberg, and R. A. Dora, to Beckman Instruments, Inc. Flame ionization detection of materials. 3,140,919, 7-14-64, Cl. 23-232.
- Galle, Edward M.: See—
- Medlock, James D., Galle, and Atkinson. 3,125,174.
- Medlock, James D., Galle, and Atkinson. 3,125,175.
- Galleher, Ellis A., Jr. Oral inhaler or applicator with seal-ing means. 3,139,088, 6-30-64, Cl. 128-208.
- Galler, Edward A., to The Cushman Chuck Co. Center-adjustable chuck adapter. 3,129,950, 4-21-64, Cl. 279-1.
- Galley, Fred C., to American Radiator & Standard Sanitary Corp. Gas valve. 3,126,911, 3-31-64, Cl. 137-495.
- Galley, Hollis T.: See—
- Abel, Edward P., Galley, and Gerhardt. 3,152,940.
- Galley, Robert: See—
- Dreyfus, Gaspard P., Ertaud, Friberg, Galley, Julia, and Panossian. 3,150,822.
- Gallistel, Albert F., to Waldorf Paper Products Co. Reinforcing pad for container liner. 3,144,183, 8-11-64, Cl. 229-14.
- Gallmeyer & Livingston Co.: See—
- Fant, William J., and Van Wyk. 3,157,969.
- Gallo, John, Sr. Dispensing device. 3,135,428, 6-2-64, Cl. 222-94.
- Gallo, Joseph. Fresh flower holder. 3,150,462, 9-29-64, Cl. 47-55.
- Gallo, Joseph S. Foam anchor. 3,148,480, 9-15-64, Cl. 47-41.12.
- Gallons, George, to Allis-Chalmers Mfg. Co. Current trans-former. 3,147,456, 9-1-64, Cl. 336-173.
- Galloway, Benjamin J. Bullet mold stand. 3,126,594, 3-31-64, Cl. 22-90.
- Galloway, Charles W., to Douglas Aircraft Co., Inc. Hydraulic cap and pressure ring seal. 3,149,848, 9-22-64, Cl. 277-165.
- Galloway, Ethan C., to The Dow Chemical Co. Preparation of diaminoipmelic acid. 3,122,583, 2-25-64, Cl. 260-531.
- Galloway, Frederick M.: See—
- Fritz, Harry E., Gallagher, Galloway, Kerr, Plumb, Rittenhouse, and Sinnamon. 3,117,597.
- Galloway, Frederick M., R. M. Kerr, G. J. Rittenhouse, and R. H. Sinnamon, to H. K. Porter Co., Inc. Buoyant hose. 3,119,415, 1-28-64, Cl. 138-103.
- Galloway, Richard T., to United States of America, Navy. Apparatus for determining the direction of arrival of wave energy. 3,130,385, 4-21-64, Cl. 340-6.
- Galloway, Richard T., to United States of America, Navy. Steering indicator for range-bearing navigation system. 3,160,878, 12-8-64, Cl. 343-5.
- Galloway, Robert K., to FMC Corp. Carton handling apparatus. 3,156,167, 11-10-64, Cl. 93-53.
- Gallus, Julius P.: See—
- Eckel, John E., and Gallus. 3,149,684.
- Gallus, Julius P., to Jersey Production Research Co. Method for sealing porous surfaces. 3,123,158, 3-3-64, Cl. 175-59.
- Gallus, Julius P., G. D. Orloff, and B. T. Willman, to Jersey Production Research Co. Method of sampling underground formations. 3,158,209, 11-24-64, Cl. 175-59.
- Gally, Jean-Jacques: See—
- Rollin, Maurice, and Gally. 3,141,835.
- Galmartini, Oscar L.: See—
- Cataldi, Maria S., Pahn, and Galmartini. 3,159,541.
- Galmiche, Philippe, to Office National d'Etudes et de Recherches Aérospatiales called O.N.E.R.A. Methods of treating metallic powders. 3,157,532, 11-17-64, Cl. 117-100.
- Galneder, Franz X.: See—
- Bauer, John G., and Galneder. 3,136,040.
- Galonska, David A., and G. A. Widmoyer, to General Motors Corp. Ball bearing nut and screw assembly. 3,145,580, 8-25-64, Cl. 74-459.
- Galonska, Walter O., to Talon, Inc. Apparatus for forming filamentary material for slide fasteners. 3,133,315, 5-19-64, Cl. 18-19.
- Galorneau, Louis C., and J. G. Fowler. Tool holder. 3,143,177, 8-4-64, Cl. 175-413.
- Galpin, Robert K. P., to Associated Electrical Industries Ltd. Hall effect apparatus. 3,161,845, 12-15-64, Cl. 338-32.
- Galsen, Allen E., to United States of America, Atomic Energy Commission. Pressure relief device for neutronic reactors. 3,123,533, 3-3-64, Cl. 176-38.
- Galster, Helmuth, to Bran & Lubbe Wasseraufbereitung Maschinen-und Apparatebau. Apparatus for automatic titration. 3,121,614, 2-18-64, Cl. 23-253.
- Galvin, Joseph T.: See—
- Altman, Frank, Jr., Galvin, and Brown. 3,145,889.
- Galvin, Ralph B. Heating apparatus. 3,128,756, 4-14-64, Cl. 126-116.
- Gam Electronics, Inc.: See—
- Nuttie, Andrew C. 3,145,384.

Gambale, John C., to Westinghouse Electric Corp. Protective relay assemblies. 3,144,586, 8-11-64, Cl. 317-38.

Gamberg, Edward R., to Westinghouse Electric Corp. Electrode for arc welding and method of using such electrode. 3,160,732, 12-8-64, Cl. 219-74.

Gamberini, Goffredo, to American Machine & Foundry Co. Tobacco cutter. 3,117,602, 1-14-64, Cl. 146-119.

Gamberini, Goffredo, to American Machine & Foundry Co. Cigarette package conveying and grouping machine. 3,125,378, 3-17-64, Cl. 302-2.

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Gambill, Marvin. Hot caustic treatment of earth formations. 3,129,760, 4-21-64, Cl. 166-38.

Gambino, John R., to General Electric Co. Rare earth-iron garnet preparation. 3,131,082, 4-28-64, Cl. 117-49.

Gambino, Richard J., to United States of America, Army. Method of growing single crystals. 3,150,925, 9-29-64, Cl. 23-50.

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Gamble, Charles S. Organ drawbar demonstrator device. 3,143,914, 8-11-64, Cl. 84-343.

Gamble, Joseph H., and W. C. Woods, to United States of America, Navy. Frequency modulator for magnetron pulses utilizing variably phase shifted reflection from mismatch to pull magnetron frequency. 3,149,292, 9-15-64, Cl. 332-5.

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Gamet, Louis J., to La Precision Industrielle. Machine tool spindle bearing assemblies. 3,144,283, 8-11-64, Cl. 308-207.

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Fleser, Garland E. 3,126,522.

Fleser, Garland E., and Schreppel. 3,133,264.

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Gamichon, Denise M. N. Bedding articles. 3,134,110, 5-26-64, Cl. 5-336.

Gamma Research Laboratory Corp.: See—

Shuck, Richard L., and Lawlor. 3,118,720.

Gammie, John E., to Koehring Co. Rail threader. 3,120,819, 2-11-64, Cl. 104-5.

Gamo, Hideya, to International Business Machines Corp. Optical phase measuring apparatus. 3,134,840, 5-26-64, Cl. 88-14.

Gamo, Hideya, to International Business Machines Corp. Optical phase angle measuring apparatus. 3,160,696, 12-8-64, Cl. 88-14.

Ganahl, Alfred, to Ernest H. Fischer's Sohne, Aktiengesellschaft. Hydraulic piston machines. 3,123,013, 3-3-64, Cl. 103-161.

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Desvignes, Jean L., and Gancel. 3,145,807.

Gancel, Pierre, to Societe Anonyme D.B.A. Spot type disc brakes. 3,145,806, 8-25-64, Cl. 188-73.

Gancel, Pierre, to Societe Anonyme D.B.A. Disc brakes. 3,155,194, 11-3-64, Cl. 188-73.

Gancel, Pierre, to Societe Anonyme D.B.A. Yoke-caliper type disc brake. 3,162,272, 12-22-64, Cl. 188-73.

Gancher, Leonard N., and J. Petro, to Commercial Shearing & Stamping Co. Multiple stage telescopic cylinders. 3,128,674, 4-14-64, Cl. 91-167.

Gandolfi, Carmelo: See—

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De Ruggieri, Pietro, and Gandolfi. 3,134,771.

De Ruggieri, Pietro, Gandolfi, and Chiamomonti. 3,137,710.

De Ruggieri, Pietro, Gandolfi, and Chiamomonti. 3,153,063.

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Gandon, Louis, to Nobel-Bozel. Preparation of silica gels from alkaline silicates and polyalcohol esters. 3,149,955, 9-22-64, Cl. 106-74.

Gandy, Robert W., to Telephone Cables Ltd. Method of making a thermoplastic joint. 3,133,846, 5-19-64, Cl. 156-49.

Ganellin, Charon R.: See—

Jack, David, Spickett, and Ganellin. 3,159,634.

Gangbin, Marvin. Artificial daylight fixture. 3,152,763, 10-13-64, Cl. 240-1.1.

Ganguet, William A., and G. D. McKenzie. Cotton harvester. 3,144,744, 8-18-64, Cl. 56-31.

Gangulin, Karl O., D. W. C. Ramsay, and A. E. Kaye, to Ilford Ltd. Photographic developers. 3,134,673, 5-26-64, Cl. 96-66.

Ganowsky, Raymond J. Rotary solenoid. 3,144,593, 8-11-64, Cl. 317-165.

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Ganitta, Eugen, and G. Vogel, to International Standard Electric Corp. Transistorized telephone subsets. 3,153,703, 10-20-64, Cl. 179-84.

Gann, James R., to Gann Machine Shop. Hosiery boarding machine. 3,121,520, 2-18-64, Cl. 223-76.

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Gann, James R. 3,121,520.

Gannaway, Edwin L.: See—

Comstock, Russell E., and Gannaway. 3,138,358.

Gannett, Wright K.: See—

Mast, Gifford M., and Gannett. 3,155,979.

Gannett, Wright K., to United States of America, Navy. Stereoscopic viewer. 3,137,760, 6-16-64, Cl. 88-29.

Gannon, Robert L.: See—

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Grindheim, Earl A., Stenstrom, and Walus. 3,154,066.

Stenstrom, Arthur J., and Walus. 3,154,067.

Ganouna-Cohen, Gilbert, M. Dieval, C. Renaut, H. Rigaut, and J. Savouyaud. Electrostatic relay for measuring small currents and charges. 3,153,710, 10-20-64, Cl. 200-87.

Gans, Eugene H., to Hoffmann-La Roche Inc. Highly acidic cation exchange resin containing amphotropine cations. 3,131,121, 4-28-64, Cl. 167-55.

Gans, Manfred, to Halcon International Inc. Method for the removal of deposited crude maleic acid. 3,120,455, 2-4-64, Cl. 134-30.

Gans, Manfred, to Halcon International, Inc. Maleic anhydride composition and method of making same. 3,127,419, 3-31-64, Cl. 260-346.8.

Gans, Manfred, and J. L. Russell, to Halcon International, Inc. Composition consisting of maleic anhydride and a fatty acid. 3,140,300, 7-7-64, Cl. 260-346.8.

Gans, Manfred, and R. W. Simon, to Halcon International, Inc. Stabilized maleic anhydride. 3,141,026, 7-14-64, Cl. 260-346.8.

Gant, Mary E. Sprocket arrangement. 3,156,130, 11-10-64, Cl. 74-243.

Gant, Preston L.: See—

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Gantz, Emmett J. Bird cage feeder device. 3,119,372, 1-28-64, Cl. 119-18.

Gantz, Jack I. Hydraulic leverage shear. 3,136,193, 6-9-64, Cl. 83-380.

Ganz, Daniel M., to Darrol Co. Adjustable display device. 3,162,148, 12-22-64, Cl. 108-10.

Ganz, Ernest D., and P. P. Grad, to Aerovox Corp. Method for impregnating capacitors. 3,116,535, 1-7-64, Cl. 29-25.41.

Ganz, Robert H., to Continental Can Co., Inc. Method and machine for positioning articles to be packaged. 3,119,482, 1-28-64, Cl. 198-33.

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Gapp, Roland H., to Townsend Co. Rivet and method of riveting. 3,148,578, 9-15-64, Cl. 85-77.

Gapstur, John J., to Rubbermaid Inc. Rotary and percussive tool. 3,123,156, 3-3-64, Cl. 173-48.

Garaballo, Giuseppe. Fuel tank control. 3,133,741, 5-19-64, Cl. 280-5.

Garabon, John. Paint applicators. 3,148,402, 9-15-64, Cl. 15-573.

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Garbe, George F. W., to The United States Time Corp. "D" Jewel watch escapement. 3,146,581, 9-1-64, Cl. 58-122.

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Keuchen, Erich, and Hoven. 3,163,769.

Garber, Calvin S.: See—

Laakso, Thomas M., Williams, and Garber. 3,125,550.

Garber, Mike I., and H. Goldberg, to Miniwheel Ltd. Buckle. 3,156,961, 11-17-64, Cl. 24-84.

Garber, Roy W., to Jackson Mfg. Co. Row marker. 3,157,316, 11-17-64, Cl. 222-169.

Garbers, Ernst. Method of an arrangement for automatically controlling the release operation in a marshalling yard. 3,141,420, 7-21-64, Cl. 104-26.

Garbett, Thomas A.: See—

Agius, Peter J. V. J., Bryan, and Garbett. 3,137,679.

Garbo, Paul W., to Hydrocarbon Research, Inc. Process and apparatus for liquid-gas reactions. 3,151,060, 9-29-64, Cl. 208-213.

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Metro, Stephen J., Garbus, and Barnum. 3,124,533.

Garbutt, Robert: See—

Gardner, Terence E. G., and Garbutt. 3,156,298.

Gardner, Terence E. G., Garbutt, and Davis. 3,135,417.

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Pená, Jose M. 3,130,932.

Garcia, Daniel S. Floor and ceiling construction. 3,127,704, 4-7-64, Cl. 50-389.

Garcia, Manuel H.: See—

Zurdo, Manuel R., and Garcia. 3,152,590.

Garcia Oller, José L. Radiological apparatus wherein the patient support and X-ray sources are supported on a rotatable horizontal shaft. 3,141,972, 7-21-64, Cl. 250-55.

Garcia, Pedro A. Method of manufacturing shoes. 3,117,331, 1-14-64, Cl. 12-142.

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Zurawski, Edward F. 3,154,001.

Gard Industries, Inc.: See—

Williams, Edward J. 3,132,508.

Gard, Jerold H., to Kaiser Aerospace & Electronic Corp. Triangular waveform generator with means for selectively allowing wide-angle swing of waveform slopes. 3,150,272, 9-22-64, Cl. 307-88.5.

Gard, Kenneth V. J., to Flight Refuelling Ltd. Pressure responsive flow control valves. 3,125,115, 3-17-64, Cl. 137-220.

Gardel, Robert, and E. Gorsky. Crying doll mechanism. 3,136,089, 6-9-64, Cl. 46-232.

Gardella, John M., to The S. S. White Dental Mfg. Co. Tray support for a dental unit. 3,160,379, 12-8-64, Cl. 248-124.

Gardella, William A. Model airplane launching anchor. 3,154,883, 11-3-64, Cl. 46-78.

Garden, William B., to Wilson & Garden Ltd. Tensioning device for a board for educational purposes. 3,142,194, 7-28-64, Cl. 74-242.14.

Gardener, Reginald H., to Northwest Industries Ltd. Heating element. 3,139,518, 6-30-64, Cl. 219-522.

Gardener, Reginald H., to Northwest Industries Ltd. Process utilizing shuttle moulds. 3,142,716, 7-28-64, Cl. 264-272.

Gardener, Reginald H., to Northwest Industries Ltd. Mobile means for plasticizing and applying thermoplastic materials and including injection molding and extrusion. 3,154,811, 11-3-64, Cl. 18-12.

Gardener, Karl-Josef: See—

Kothe, Heinz, and Gardener. 3,117,133.

Gardener, Karl-Josef, and H. Kothe, to Henkel & Cie G.m.b.H. Process for the preparation of sultones. 3,146,242, 8-25-64, Cl. 260-327.

Gardes, Alfred W., and J. R. Rosenski, to International Register Co. Coin controlled time switch with reset cam. 3,162,733, 12-22-64, Cl. 200-35.

Gardhouse, Percy H. Multiple hull water craft. 3,116,708, 1-7-64, Cl. 114-61.

Gardi, Rinaldo: See—

Ercoli, Alberto, and Gardi. 3,118,917.

Ercoli, Alberto, and Gardi. 3,120,548.

Ercoli, Alberto, and Gardi. 3,135,744.

Ercoli, Alberto, and Gardi. 3,139,425.

Ercoli, Alberto, and Gardi. 3,147,249.

Ercoli, Alberto, and Gardi. 3,152,154.

Ercoli, Alberto, and Gardi. 3,154,569.

Ercoli, Alberto, and Gardi. 3,159,620.

Gardiner, Albert J. Collapsible and reusable container. 3,148,821, 9-15-64, Cl. 229-41.

Gardiner, Frank J., to I-T-E Circuit Breaker Co. Structure for rotating seals. 3,120,919, 2-11-64, Cl. 230-69.

Gardiner, Frank J., to I-T-E Circuit Breaker Co. Pressure transformer. 3,145,909, 8-25-64, Cl. 230-69.

Gardiner, Paul C., and A. O. Jensen, to General Electric Co. Gas discharge gap tube. 3,119,040, 1-21-64, Cl. 313-214.

Gardiner, Ralph G., to FMC Corp. Apparatus for feeding and orienting fruit. 3,151,729, 10-6-64, Cl. 198-33.

Gardiner, Terence E. G., and P. W. Davis, to Bristol Siddeley Engines Ltd. Jet propulsion nozzles. 3,134,226, 5-26-64, Cl. 60-35.54.

Gardiner, Terence E. G., R. Garbutt, and P. W. Davis, to Bristol Aerojet Ltd. Plugs for pipes and locking means therefor. 3,135,417, 6-2-64, Cl. 220-55.3.

Gardiner, Terence E. G., and R. Garbutt, to Bristol Siddeley Engines Ltd. Heat shielding for ducts. 3,156,298, 11-10-64, Cl. 165-134.

Gardiner, William C., to Olin Mathieson Chemical Corp. Mercury cathode electrolytic cells. 3,140,991, 7-14-64, Cl. 204-219.

Gardippee, Walter E. Unloading conveyor for dump trucks. 3,122,251, 2-25-64, Cl. 214-509.

Gardner, Adryl W. Multiple-wheel articulated drive axle and vehicle. 3,161,250, 12-15-64, Cl. 180-22.

Gardner, Cyril, and J. F. Prescott, to Imperial Chemical Industries Ltd. Purification of hydrogenation products. 3,149,162, 9-15-64, Cl. 260-582.

Gardner, Cyril, and R. G. A. New, to Imperial Chemical Industries Ltd. Process for the catalytic reduction of dinitrotoluenes. 3,154,584, 10-27-64, Cl. 260-580.

Gardner, David M.: See—

Paustian, John E., and Gardner. 3,155,731.

Gardner, David M., to Pennsalt Chemicals Corp. Monopropellant comprising sulfuric acid nitrosyl-pyrosulfate and a fuel stable to sulfuric acid. 3,138,500, 6-23-64, Cl. 149-74.

Gardner-Denver Co.: See—

Baker, William J. 3,143,307.

Bent, John H. 3,126,766.

Loy, Fred W., and Baker. 3,117,736.

Nelson, Arvid L., Saeger, and Seckman. 3,140,642.

Olds, William L., and Baker. 3,156,337.

Pohs, Henry A. 3,135,356.

Sorensen, Clarence A., and Workman. 3,129,642.

Wensing, Francis M., and Yerbury. 3,117,756.

Williams, Raymond F. 3,141,604.

Winston, Earl B. 3,154,100.

Gardner, Donald B., to International Telephone and Telegraph Corp. Anti-slug control for refrigeration circuits. 3,130,558, 4-28-64, Cl. 62-197.

Gardner, Donald H., to Harsco Corp. Die set bushing and method of assembling a bushing in a die set. 3,118,217, 1-21-64, Cl. 29-149.5.

Gardner, Donald H., to Elastic Die Engineering Co. Die cushion. 3,152,564, 10-13-64, Cl. 113-46.

Gardner, Donald H., to Elastic Die Engineering Co. Die cushion. 3,152,565, 10-13-64, Cl. 113-46.

Gardner, Donald L. Exhaust and water injector for internal combustion engines. 3,139,873, 7-7-64, Cl. 123-119.

Gardner, Douglas B., and F. B. Kuffer, to Beckman Instruments, Inc. Meter with adjustable pointer reference markers. 3,145,339, 8-18-64, Cl. 324-157.

Gardner, Ernest A. Necktie storage device. 3,131,805, 5-5-64, Cl. 206-7.

Gardner, Ernest A., to Count-Way, Inc. Measuring systems. 3,133,604, 5-19-64, Cl. 177-1.

Gardner, Ernest A., and P. T. McCauley, to Count-Way, Inc. Measurement and control systems. 3,133,607, 5-19-64, Cl. 177-108.

Gardner, Frank H., and D. T. Codd, said Gardner, assor, to Air Reduction Co., Inc. Anaesthetic and analgesic inhalers. 3,162,192, 12-22-64, Cl. 128-188.

Gardner, Frederick H., and R. E. Smith, to North American Aviation, Inc. Compressible fluid metering apparatus. 3,132,767, 5-12-64, Cl. 222-3.

Gardner, Grayson E., Jr., to General Motors Corp. Brush lead connection for dynamoelectric machine. 3,127,533, 3-31-64, Cl. 310-245.

Gardner, Guy F.: See—

Todd, Everett W., and Gardner. 3,117,541.

Gardner, Hal. Lift truck. 3,133,655, 5-19-64, Cl. 214-652.

Gardner, Harry: See—

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Bassinger, Ross, and Gardner. 3,132,704.

Gardner, John L., and J. P. Kottenstette. Recording bath-room scale. 3,154,159, 10-27-64, Cl. 177-10.

Gardner, John N., and G. L. Willey, to Smith Kline & French Laboratories. New benzo-1,3-dioxole derivatives. 3,149,128, 9-15-64, Cl. 260-340.5.

Gardner, John N., and G. L. Willey, to Smith Kline & French Laboratories. Benzo-1,3-dioxole derivatives. 3,149,129, 9-15-64, Cl. 260-340.5.

Gardner, John R.: See—

Hick, Charles, and Gardner. 3,140,645.

Gardner, Lawrence H. Elastic sleeve valve. 3,145,967, 8-25-64, Cl. 251-5.

Gardner, Leland C., Sr., and L. F. Waldrop, Jr. Pipe joint for soil pipes having wedge locking means. 3,148,902, 9-15-64, Cl. 285-339.

Gardner Mfg. Co.: See—

Peterson, Lawrence W. 3,144,113.

Gardner, Mark B.: See—

Barney, Harold L., and Gardner. 3,156,316.

Flanagan, James L., and Gardner. 3,161,838.

Gardner, Mark B., to Bell Telephone Laboratories, Inc. Transmission control in signaling system. 3,128,353, 4-7-64, Cl. 179-170.6.

Gardner, Mark B., and J. R. Nelson, to Bell Telephone Laboratories, Inc. Control of dynamic range and sensitivity of echo suppressor circuits. 3,145,269, 8-18-64, Cl. 179-170.6.

Gardner, Norman S. Molded plastic tampon applicator. 3,124,134, 3-10-64, Cl. 128-263.

Gardner, Percy S., Jr. Undersea mining apparatus with means to establish a pressure balance across the inlet to the conveyor tube. 3,143,816, 8-11-64, Cl. 37-71.

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Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. Sugar acid derivatives of aralkylhydrazines. 3,129,259, 4-14-64, Cl. 260-562.

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Foltz, James R., Gardner, and Strausberg. 3,140,151.

Gardner, William A.: See—

Mihram, Russell G., and Gardner. 3,153,580.

Gardner, Willis W.: See—

Gruber, Jerome M., and Gardner. 3,129,417.

Gardner, Willis W., to Waukesha Bearings Corp. Equalizing arrangements for tandem thrust bearings. 3,158,415, 11-24-64, Cl. 308-160.

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Janssen, Paul A., J., and Gardockl. 3,141,823.

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Gardopon, John L., and L. S. Luskin, to Rohm & Haas Co. Treatment of cellulosic fabrics and the products thereby obtained. 3,122,411, 2-25-64, Cl. 8-116.

Gare, Morris R. Water purifying device for aquariums. 3,152,987, 10-13-64, Cl. 210-169.

Garetto, Giuseppe, to Rhodatoce-S.p.A. Method of coating with powdered cellulose acetate. 3,148,077, 9-8-64, Cl. 117-21.

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Carlson, Gus A. 3,135,560.

Gargrave, Rebecca G.: See—

Gargrave, Robert A. 3,145,861.

Gargrave, Robert A., deceased, by R. G. Gargrave, executrix, to Dayton Perforators, Inc. Work holder. 3,145,861, 8-25-64, Cl. 214-340.

- Garibaldi, John A., and H. G. Bayne, to United States of America, Agriculture. Method of washing eggs. 3,131,067, 4-28-64, Cl. 99-113.
- Garlepy, Henry J. Adjustable warp-resisting leg holder plate. 3,136,517, 6-9-64, Cl. 248-188.
- Garlepy, Henry J. Upholstered furniture. 3,146,029, 8-25-64, Cl. 297-445.
- Garland, Claude B. Forward and reverse transmission with brake. 3,132,729, 5-12-64, Cl. 192-4.
- Garland, John: See—
- London, Joseph C., and Garland. 3,131,042.
- Garland, Philip L., Jr., to Avisun Corp. Article carrier. 3,151,792, 10-6-64, Cl. 224-45.
- Garland, Robert B., to G. D. Searle & Co. 2-(hydroxy/oxy)-N,N-di(lower alkyl)-5-(6-methoxy-2-naphthyl)cyclopentaneacetamides and congeners. 3,152,179, 10-6-64, Cl. 260-559.
- Garland, Robert B., to G. D. Searle & Co. 17a-(2-carboxy-ethyl)-17b-hydroxy-6-nitroandrosta-4-en-3-one γ -lactones. 3,150,622, 12-1-64, Cl. 260-239.57.
- Garland, Ronald M., and E. S. Ashford, to Veeder-Root Inc. Apparatus for dispensing preselected mixtures of liquids. 3,141,572, 7-21-64, Cl. 222-28.
- Garlasco, Christie B., Jr.: See—
- Miller, Kenneth J., Peterson, and Garlasco. 3,132,617.
- Garlinghouse Brothers: See—
- Garlinghouse, Leslie H. 3,132,848.
- Garlinghouse, Leslie H., to Garlinghouse Brothers. Quick mixer. 3,132,848, 5-12-64, Cl. 259-72.
- Garlock Inc.: See—
- Fisher, Edward W. 3,155,566.
- Genz, Orville F. 3,155,014.
- Genz, Orville F. 3,155,015.
- Klein, Donald E. 3,147,982.
- Schlurmer, Alfred F. 3,144,253.
- Webster, James R., Houghton, and Velt. 3,124,032.
- Garmale, David L.: See—
- McKay, Arthur F., and Garmale. 3,117,994.
- Garmon, Thebert W. Form for casting concrete wall slab. 3,148,429, 9-15-64, Cl. 25-1.
- Garms, Ralph F.: See—
- Himes, John M., and Garms. 3,161,036.
- Garmy, Robert J., to Republic Steel Corp. Safety controls for electric furnaces. 3,118,013, 1-14-64, Cl. 13-9.
- Garn, Wilhelm: See—
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- Garnell, Lloyd L.: See—
- Dwyer, Anthony A., Garnell, McClay, and Sealock. 3,159,351.
- Garner, Albert Y.: See—
- Abramo, John G., Chapin, and Garner. 3,143,569.
- Abramo, John G., Garner, and Chapin. 3,161,667.
- Chapin, Earl C., and Garner. 3,158,642.
- Garner, Albert Y., to Monsanto Chemical Co. Novel phosphonyl polymers. 3,127,357, 3-31-64, Cl. 260-2.
- Garner, Albert Y., to Monsanto. Polyphosphinate resins. 3,161,607, 12-15-64, Cl. 260-2.
- Garner, Albert Y., to Monsanto Co. Phosphine oxide polymers. 3,161,687, 12-15-64, Cl. 260-806.5.
- Garner, Edward V., to Bird Machine Co. Centering of rotary members. 3,144,784, 8-18-64, Cl. 74-411.
- Garner, Harold K.: See—
- Yates, Edwin T., and Garner. 3,157,625.
- Garner, Kenneth B., and J. E. Ranger, to Combustion Engineering, Inc. Moving-tube solid panel welder. 3,127,503, 3-31-64, Cl. 219-129.
- Garnett, Donald W.: See—
- Olofsson, Gustav A., and Garnett. 3,156,311.
- Garnett, John M., Jr. Mortar spreader. 3,148,432, 9-15-64, Cl. 25-118.
- Garnett, Lawrence T., to Robertshaw Controls Co. Sealed electromechanical force balance unit with an externally adjustable magnetic circuit. 3,127,558, 3-31-64, Cl. 324-34.
- Garnich, Alvin B., to The Yale and Towne Inc. Fork extending and side shifting construction. 3,142,400, 7-28-64, Cl. 214-730.
- Garneck, Philip W. H. Benner, and L. G. Wynne, to Sigma Instruments, Inc. Photosensitive control circuit with automatic rearming. 3,129,360, 4-14-64, Cl. 317-124.
- Garnier, Henri L., L. Rubet, and R. H. F. Marchal, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Turbo-molecular vacuum pump. 3,138,318, 6-23-64, Cl. 230-122.
- Garofalo, Frank, to United States Steel Corp. Method of treating boron coated steel to eliminate Lüders' bands. 3,151,001, 9-29-64, Cl. 148-14.
- Garofalo, Vito M., to L. Cohen. Mechanical starting devices for miniature engines. 3,131,682, 5-5-64, Cl. 123-179.
- Garofalo, Vito M., to L. Cohen. Spring starting devices for miniature engines and the like. 3,159,154, 12-1-64, Cl. 123-179.
- Garon, Eugene L.: See—
- Carton, Pierre, Jean, and Carton. 3,120,431.
- Garoogian, Mike M. Illuminated aerial top. 3,162,979, 12-29-64, Cl. 46-228.
- Garr, Bernard A.: See—
- Garr, Charles G. and B. A. 3,140,849.
- Garr, Charles G. and B. A. Support for paint rollers. 3,140,849, 7-14-64, Cl. 248-304.
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- Gentry, Hermond G., and Garrard. 3,127,720.
- Garratt, Joseph A., to Hi-G Inc. Timing circuit. 3,158,790, 11-24-64, Cl. 317-142.
- Garre, Bernward, to Giulini Gebruder, G.m.b.H. Livestock feed. 3,117,867, 1-14-64, Cl. 99-2.
- Garret, Richard H., and G. M. O'Keefe, to Dixell Development and Mfg. Co. Rotating cylinder guided check-valve assembly. 3,157,191, 11-17-64, Cl. 137-332.
- Garrett, Clarence L. Depth indicator for fishing line. 3,159,920, 12-8-64, Cl. 33-129.
- Garrett Corp.: See—
- Abrams, Edward F., and Silver. 3,133,721.
- Bailey, George B. 3,144,913.
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- Chapman, James E. 3,156,093.
- Chapman, James E., and Bevan. Re. 25,659.
- Dunn, Winfred F., and Austin. 3,131,040.
- Fischer, Richard A. 3,145,638.
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- Glaser, Jerry. 3,131,003.
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- Jensen, Raymond W. 3,126,947.
- Kidwell, Robert L., and Litherland. 3,146,356.
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- Lones, Dain B., and Padgett. 3,123,754.
- McCoy, Allan W., and Whitaker. 3,117,418.
- Miller, Lamont E. 3,126,711.
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- Rowland, Charles M. 3,122,153.
- Silver, Alexander. 3,162,716.
- Sladek, Leonard T. 3,132,660.
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- Wardleigh, Henry W. 3,127,182.
- Garrett, Daniel N.: See—
- O'Gorman, William F. 3,154,761.
- Garrett, Douglas R.: See—
- Albert, Albert W., and Garrett. 3,144,954.
- Garrett, Dwight A. Log stacker attachment for tractor vehicles. 3,140,002, 7-7-64, Cl. 214-147.
- Garrett, Henry U., to Udell, Inc. Systems of expansible well tools. 3,137,349, 6-16-64, Cl. 166-196.
- Garrett, Jim C., to Automatic Electric Laboratories, Inc. Intercept strapping bridge. 3,138,417, 6-23-64, Cl. 339-17.
- Garrett, John C., to The Garrett Corp. Safety system. 3,133,667, 5-19-64, Cl. 220-88.
- Garrett, John C., to The Garrett Corp. Fuel store. 3,147,593, 9-8-64, Cl. 60-39.46.
- Garrett, Lewis C., and H. S. Woodberry, to Monsanto Co. Slub detector. 3,154,943, 11-3-64, Cl. 73-160.
- Garrett, Luther W., Jr.: See—
- Pfeiffer, Robert W., and Garrett. 3,160,499.
- Garrett, Neil L. Adjustable rodeo spur. 3,153,888, 10-27-64, Cl. 54-83.
- Garrett, Roy C.: See—
- Simmons, William B., Shealy, Garrett, and Shannon. 3,147,179.
- Garrett, William G., and L. S. Williams, to Commonwealth Scientific and Industrial Research Organization. Process for the production of articles of ceramic ware from magnesium oxide. 3,133,134, 5-12-64, Cl. 264-86.
- Garretty, Thomas E., to Buckeye Mfg. Co. Folding nest. 3,144,000, 8-11-64, Cl. 119-45.
- Garriott, Donald H., and R. L. Hill, to Morgan Packing Co., Inc. Machine for loading particulate material in containers. 3,147,780, 9-8-64, Cl. 141-88.
- Garrison, Allen D., and E. Eisner, to Texaco Inc. Radiological well logging using neutron collimator to reduce the effect of well fluid on the log. 3,163,761, 12-29-64, Cl. 250-83.3.
- Garrison, Clifford L., to Oliver Instrument Co. Chuck construction. 3,141,678, 7-21-64, Cl. 279-114.
- Garrison, James O., to Garrison Machine Works, Inc. Chuck. 3,149,853, 9-22-64, Cl. 279-106.
- Garrison Machine Works, Inc.: See—
- Garrison, James O. 3,149,853.
- Garrison, Marion A. Drill-stem core bit and wall sampler. 3,150,727, 9-29-64, Cl. 175-78.
- Garrison, Robert A., and C. F. Schoelm; said Schoelm assor. to said Garrison. Fluid operated booster valve. 3,133,473, 5-19-64, Cl. 91-372.
- Garrison, William E., Jr., to E. I. du Pont de Nemours and Co. Acrylonitrile production. 3,118,928, 1-21-64, Cl. 260-463.3.
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- Ottensmeyer, Johannes H., and Garritsen. 3,152,175.
- Garrud, Norman J. Gramophone record sleeve. 3,116,870, 1-7-64, Cl. 229-68.
- Garrullini, Mario, 15% to L. Huntley. Collapsible surfboard. 3,137,873, 6-23-64, Cl. 9-310.
- Garron, James E., to Alba-Waldensian, Inc. Hosiery package. 3,142,379, 7-28-64, Cl. 206-78.
- Garron, Victor H., to Pilot Research Corp. Knitted elastic cotton garments and method of forming the same. 3,132,497, 5-12-64, Cl. 66-202.

- Garshick, Alfred, to Boston Insulated Wire & Cable Co. Buoyant cable. 3,155,768, 11-3-64, Cl. 174-101.5.
- Garson, Stanley A., and C. Smith; said Smith assor. to said Garson. Convertible trailer. 3,165,419, 11-3-64, Cl. 296-28.
- Garte, Mathew. Coffee making device. 3,120,170, 2-4-64, Cl. 99-287.
- Garten, Roy E., Jr., to Continental Oil Co. Method and apparatus for plotting seismic data. 3,159,808, 12-1-64, Cl. 349-15.5.
- Garth, Ernest D. G., deceased, by L. C. May, and A. B. Young, co-executors. Catheters. 3,131,694, 5-5-64, Cl. 128-349.
- Gartland, William A.: See—
- Sipinen, Edsel H., and Gartland. 3,139,774.
- Gärtner, Kurt, to Herunter, Schubfabrik Koflach F., ohg. Skiing boot. 3,125,816, 3-24-64, Cl. 36-2.5.
- Gartner, Stanley J.: See—
- Erskine, George B., and Gartner. 3,141,361.
- Gartner, Wilhelm, to FMC Corp. Process for grinding or pulping wood. 3,130,116, 4-21-64, Cl. 162-27.
- Garton, Corbin E., and C. C. Sahliroot, to Structural Clay Products Research Foundation. Universal Mason's corner pole. 3,127,683, 4-7-64, Cl. 33-85.
- Garton, Walter T.: See—
- Kussy, Frank, Stanback, and Garton. 3,134,050.
- Garty, Kenneth T., and T. B. Gibb, Jr., to Union Carbide Corp. Polymerization of oxirane monooxides. 3,127,371, 3-21-64, Cl. 260-47.
- Garusto, Sonia G. Brassiere. 3,149,635, 9-22-64, Cl. 128-460.
- Garvey, Bernard F.: See—
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- Garvey, Francis J., to Garvey Products Corp. Spring clamp for mold parts and the like. 3,159,888, 12-8-64, Cl. 24-23.
- Garvey, George A.: See—
- Antinori, Paul. 3,135,689.
- Garvey Products Corp.: See—
- Garvey, Francis J. 3,159,888.
- Garvey, Thomas G. Process for applying a protective coating to metal surfaces. 3,117,017, 1-7-64, Cl. 117-16.
- Garvin, Thomas G. Apparatus for finishing metal parts. 3,148,485, 9-15-64, Cl. 51-164.
- Garvin, Milton M., to American Radiator & Standard Sanitary Corp. Apparatus for shaping hollow objects. 3,151,580, 10-6-64, Cl. 113-44.
- Garvin, Robert W. Powder dispenser for animals. 3,118,428, 1-21-64, Cl. 119-159.
- Garwin, Richard L.: See—
- Sunstein, David E., Wiesner, and Garwin. 3,150,374.
- Garwin, Robert: See—
- Goldberg Max, and Garwin. 3,149,523.
- Garwood, James C. Geometrical instruments. 3,136,062, 6-9-64, Cl. 33-46.
- Garwood, John S., to Sperry Rand Corp. Anti-friction axial end play limiting device. 3,131,568, 5-5-64, Cl. 74-5.
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- Clapetta, Frank G., Coonrad, and Garwood. 3,144,401.
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- Gary, Ira J. Leaf and pine straw mulching lawn mower attachment. 3,134,212, 5-26-64, Cl. 56-25.4.
- Gary, Leo A.: See—
- Harrison, Walter G., Gary, and Audet. 3,140,771.
- Harrison, Walter G., Gary, and Audet. 3,151,781.
- Gary, Wright W., Jr., L. Isenberg, and M. A. Nadler, to Aerojet-General Corp. Acoustic panel. 3,132,714, 5-12-64, Cl. 181-33.
- Garzia, Aldo, to Istituto Chemioterapico Italiano S.p.A. Process for preparing 2-p-amino-benzenesulphonamido-4,6-dimethyl-pyrimidine. 3,119,818, 1-28-64, Cl. 260-239.75.
- Garzia, Aldo, to Istituto Chemioterapico Italiano S.p.A. Method of preparing sulphonyl-amidopyrimidine. 3,131,182, 4-28-64, Cl. 260-239.75.
- Gas Council, The: See—
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- Gas Heat Engineering Corp.: See—
- Fetner, Campbell B., and Jarvis. 3,150,864.
- Gas Processing Inc.: See—
- Hull, Raymond J. 3,121,056.
- Gas Tools, Inc.: See—
- Stolte, Robert D. 3,157,194.
- Gasche, Fred, to Autoclave Engineers, Inc. Seal. 3,144,163, 8-11-64, Cl. 220-46.
- Gaskell, Thomas F., and E. H. N. Watson, to The British Petroleum Co. Ltd. Straight borehole drilling with automatic detecting and correcting means. 3,141,512, 7-21-64, Cl. 175-26.
- Gaskell, Walter L., and C. L. Seltz, to King-Seely Thermos Co. Radial arm saw. 3,123,108, 3-3-64, Cl. 143-6.
- Gaskill, George M., and T. A. Prewitt, to General Motors Corp. Automotive heating systems. 3,118,603, 1-21-64, Cl. 237-8.
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- Gaskins, Jack C.: See—
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- Gaslow, Jonathan C., D. B. Harney, and W. O. Shepherd, to Dresser Industries, Inc. Well pump. 3,143,078, 8-4-64, Cl. 103-87.
- Gaspar, Bela, to Minnesota Mining and Mfg. Co. Sensitizing methine dyes and intermediates, process for preparing same and photographic element containing these dyes. 3,152,905, 10-13-64, Cl. 96-84.
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- Gaspar, Noel J.: See—
- Butler, and Gaspar. 3,143,511.
- Gasparac, Rudolph J.: See—
- Balmer, Hansjörg, and Gasparac. 3,140,835.
- Bond, Jack B., Gasparac, and Balmer. 3,133,708.
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- Gaspar, Arthur D., to Monarch Molding, Inc. Official diagnostic instrument. 3,132,645, 5-12-64, Cl. 128-3.
- Gaspar, Melvin I., to Bell Telephone Laboratories, Inc. Translator circuit. 3,142,055, 7-21-64, Cl. 340-347.
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- Gass, Charles: See—
- Laubahn, Jennie. 3,154,866.
- Gass, David L. Universal dumperette assembly. 3,121,582, 2-18-64, Cl. 293-67.
- Gasser, Adolf: See—
- Frad, Hermann, and Gasser. 3,136,207.
- Gasser, Clive G.: See—
- Hargrave, Kenneth R., and Gasser. 3,125,593.
- Gasser, Hermann, to Pneumafil Corp. Method and means for laying out slivers and the like. 3,141,201, 7-21-64, Cl. 19-159.
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- Gassler, Gerhard: See—
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- Gassmann, Gerhard-Gunter, to International Standard Electric Corp. Relaxation oscillator employing selective and non-selective feedback. 3,141,142, 7-14-64, Cl. 331-144.
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- Gassmann, Hans U., L. Schibler, and H. R. Zbinden, to Ciba Ltd. Process for the manufacture of stable aqueous resin emulsions of the oil-in-water type. 3,137,667, 6-16-64, Cl. 260-29.4.
- Gassmann, Johannes: See—
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- Gassner, Georges, to Les Ateliers de Constructions Mecaniques C. & A. Holweg, S.A.R.L. Machine for forming a fluid-tight bag of thermo-weldable material. 3,156,164, 11-10-64, Cl. 93-22.
- Gassner, Hans, and O. Lang, to Kugelfischer Georg Schafer & Co. Drive system for false twist. 3,142,953, 8-4-64, Cl. 57-77.45.
- Gassner, Saul A.: See—
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- Gasson, Edward J., and J. F. McCaughey, to The Distillers Co. Ltd. Purification of phthalonitriles. 3,135,795, 6-2-64, Cl. 260-465.
- Gas Mfg. Corp.: See—
- Bielefeld, Rolf A. 3,138,321.
- Gastonguay, Joseph E., to Pepperell Mfg. Co. Apparatus for making pillow slips. 3,126,848, 3-31-64, Cl. 112-10.
- Gat, John D. Apparatus for making sewing implements. 3,135,301, 6-2-64, Cl. 140-149.
- Gateff, George, and E. J. Leeson, to The B. F. Goodrich Co. Post-chlorinated vinyl chloride polymer compositions having increased impact strength and improved processability. 3,145,190, 8-18-64, Cl. 260-45.5.
- Gateka, Fredrick A.: See—
- Embree, Milton L., and Gateka. 3,135,876.
- Gates and Fox Co., Inc.: See—
- Fox, Kirk H. 3,132,474.
- Gates, Francis H. Device for dispensing disks and the like. 3,163,170, 12-29-64, Cl. 133-8.
- Gates, Harlan R., to Westinghouse Electric Corp. Fusion mold fixture assembly. 3,155,064, 11-3-64, Cl. 113-99.
- Gates, Harris G., to Gates & Sons, Inc. Combination form wall reinforcing member and tie lock. 3,141,224, 7-21-64, Cl. 25-131.
- Gates, John I.: See—
- Young, Charles W., and Gates. 3,136,150.

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- Gates, Myron W., Jr. Apparatus and method for splicing tape having means for locating magnetic particles on the tape. 3,162,081, 12-22-64, Cl. 83-456.
- Gates Rubber Co., The. See—
- Haines, William M., Jr., and Carter. 3,138,962.
- Gates, Sheldon W., and J. M. Sanborn, to Motorola, Inc. Electronic circuit for converting polar to rectangular coordinates. 3,131,297, 4-28-64, Cl. 235-189.
- Gates & Sons, Inc. See—
- Gates, Harris G. 3,141,224.
- Gates, Thomas S., to National Broach & Machine Co. Gear finishing machine. 3,127,813, 4-7-64, Cl. 90-1.6.
- Gates, William H. See—
- Cosby, John N., Gates, and Harris. 3,117,998.
- Gates, William L., and C. J. Schubert, Jr., to Westinghouse Electric Corp. Variable width pulse gate generator. 3,141,143, 7-14-64, Cl. 332-9.
- Gateway Erectors, Inc. See—
- Reiland, Frank D. 3,121,978.
- Gatewood, Sidney U. See—
- Montgomery, Byron D., and Gatewood. 3,162,284.
- Gatefield, Allen G., to International Telephone and Telegraph Corp. Amplitude modulated carrier transmission system. 3,118,112, 1-14-64, Cl. 325-26.
- Gathers, Robert C. See—
- Atanasoff, John V., and Gathers. 3,137,390.
- Gathmann, Mark H., to United States Steel Corp. Method of making a hot top. 3,120,684, 2-11-64, Cl. 22-192.
- Gatlin, Frank B., W. S. Guernsey, Jr., E. J. Patterson, Jr., and R. E. Snider, to United States of America, Army. Wire-rope connector passing sheave assembly. 3,132,844, 5-12-64, Cl. 254-192.
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- Gatsis, John G. See—
- Gleim, William K. T., and Gatsis. 3,161,585.
- Gatti, Arno, to General Electric Co. Apparatus for growing whiskers. 3,147,085, 9-1-64, Cl. 23-284.
- Gatti, Arno, to General Electric Co. Method for producing composite bodies. 3,158,473, 11-24-64, Cl. 75-206.
- Gatti, Mario. Toothbrush with automatic spraying of the bristles. 3,135,989, 6-9-64, Cl. 15-578.
- Gatti, Robert L., to Associated Spring Corp. Positioning device for end loop forming means for spring coiling machine. 3,150,695, 9-29-64, Cl. 140-103.
- Gattiker, Albert F., Jr. See—
- Allen, Edward L., and Gattiker. 3,161,241.
- Gatto, Edith E. Multi-compartment cigarette package. 3,148,768, 9-15-64, Cl. 206-41.
- Gattone, Daniel H. Mask and reservoir with disposable container supply. 3,136,312, 6-9-64, Cl. 128-203.
- Gatzke, Lavigne K. See—
- Rafsnider, Philip J., and Gatzke. 3,119,447.
- Gatzke, Harold E. Seed planting machine. 3,130,694, 4-28-64, Cl. 111-7.
- Gatzke, Harold E. Art of seed-planting. 3,149,588, 9-22-64, Cl. 111-1.
- Gaubatz, Arthur W., to General Motors Corp. Fuel pumping system for gas turbines. 3,147,712, 9-8-64, Cl. 103-5.
- Gaubatz, Arthur W., to General Motors Corp. Bearing design. 3,157,028, 11-17-64, Cl. 60-35.55.
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- Gaubert, Rene J. Web cutting mechanism. 3,128,660, 4-14-64, Cl. 83-155.
- Gaubis, Leonard L., to United Aircraft Corp. Pitch changing mechanism. 3,153,454, 10-20-64, Cl. 170-135.24.
- Gaubis, Leonard L., and F. A. Young, to United Aircraft Corp. Clamp ring. 3,159,221, 12-1-64, Cl. 170-160.58.
- Gauchat, Richard H. Rotary locking device. 3,139,769, 7-7-64, Cl. 74-565.
- Gaudet, Frederick J., to Psychological Training Devices Corp. Baseball pitching practice target with ball and strike indicators. 3,157,399, 11-17-64, Cl. 273-26.
- Gaudet, James A., to Alexander Kusko, Inc. Motor speed control system. 3,123,757, 3-3-64, Cl. 318-327.
- Gaudier-Pons, Joseph, to The Sherwin-Williams Co. Color selector. 3,120,065, 2-4-64, Cl. 35-28.3.
- Gaudier-Pons, Joseph, to The Sherwin-Williams Co. Paint calculating slide rule. 3,146,942, 9-1-64, Cl. 235-70.
- Gaudio, Alphonse J. See—
- Ricci, Robert F. J., and Gaudio. 3,128,778.
- Gaugler, Edward A. See—
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- Gauld, William J. Disposable coffee percolator unit. 3,119,694, 1-28-64, Cl. 99-77.1.
- Gauldie, Kenneth, to Hydraulic Crushers Ltd. Thrust transmitting device. 3,160,353, 12-8-64, Cl. 241-264.
- Gaulien, Gay P. See—
- Kraska, Milton A., and Gaulien. 3,162,281.
- Gault, Frank M. Method of soldering and brazing structural elements. 3,156,041, 11-10-64, Cl. 29-471.1.
- Gault, James C. See—
- Sarris, Renos N. 3,145,754.
- Gault, John M., and J. R. Moross, to International Rectifier Corp. Method of making a semiconductor device. 3,128,213, 4-7-64, Cl. 156-17.
- Gault, Wilford E. See—
- Moore, Alva D. 3,148,241.
- Gaunt, James K., and P. C. Stephens, to Massey-Ferguson (Australia) Ltd. Machines for harvesting tall row crops. 3,141,281, 7-21-64, Cl. 56-16.
- Gaunt, James K., J. Wood, and J. E. Douglas, to Massey-Ferguson (Australia) Ltd. Topping device for sugar cane harvester. 3,144,743, 8-18-64, Cl. 56-17.
- Gaunt, Wilmer B., Jr., to Bell Telephone Laboratories, Inc. Magnetic wire memory circuits. 3,137,843, 6-16-64, Cl. 340-174.
- Gaunt, William E. Method of preparing sustained release pharmaceutical tablets. 3,148,124, 9-8-64, Cl. 167-82.
- Gauntt, Wayne M. See—
- Diamond, Jack, and Gauntt. 3,154,498.
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- Gause, Edward H., and P. D. Montgomery, to Monsanto Co. Purification of vinyl chloride. 3,142,709, 7-28-64, Cl. 260-656.
- Gausewitz, Richard L. Whistling floating poly-poly toy. 3,126,669, 3-31-64, Cl. 46-91.
- Gausewitz, Richard L. Container cap and whistle. 3,129,528, 4-21-64, Cl. 46-178.
- Gausewitz, Richard L. Take-apart toy in which a whistle is caused to sound by piston action during assembly and disassembly. 3,138,896, 6-30-64, Cl. 46-175.
- Gausmann, Carl. See—
- Kärger, Fritz, and Gausmann. 3,136,169.
- Gaussens, Pierre P. D., and P. Cazalet. Electric supply supervision. 3,155,817, 11-3-64, Cl. 235-151.
- Gauthier, Alfred, G.m.b.H. See—
- Bleske, Herbert. 3,122,978.
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- Starp, Franz W. R. 3,134,311.
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- Gauthier, Emile. See—
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- Gauthier, Fernand J. Device for lighting altar candles. 3,138,944, 6-30-64, Cl. 67-6.
- Gauthier, George E., to General Electric Co. Handle for enclosed electric switch including a locking slide frictionally positioned. 3,141,933, 7-21-64, Cl. 200-44.
- Gauthier, George E., K. W. Klein, and D. B. Powell, to General Electric Co. Circuit breaker contact and are extinguishing means. 3,118,036, 1-14-64, Cl. 200-144.
- Gauthier, George E., and M. E. Sirols, to General Electric Co. Electric circuit breaker with lock-open latch. 3,134,879, 5-26-64, Cl. 200-169.
- Gauthier, Robert, and J. Pigeroulet, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Power plants comprising an internal combustion engine provided with a governor and a variable ratio transmission. 3,133,407, 5-19-64, Cl. 60-19.
- Gauthier, Robert O. See—
- Kanzelberger, Claude G., and Gauthier. 3,137,493.
- Gauthier, William D., to Ransburg Electro-Coating Corp. Electrostatic coating apparatus. 3,128,045, 4-7-64, Cl. 230-15.
- Gauthier, William D., to Ransburg Electro-Coating Corp. Electrostatic spray coating method and apparatus. 3,128,201, 4-7-64, Cl. 117-93.42.
- Gauthron, Maurice. See—
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- Gauvain, Roger, to Societe Alsacienne de Constructions Mecaniques. Rectilinear combers for textile fibers. 3,125,783, 3-24-64, Cl. 19-225.
- Gavarn, Joseph J., and F. H. Heissenbuttel, III, to United States of America, Navy. High frequency transistor bistable multivibrator. 3,143,669, 8-4-64, Cl. 307-88.5.
- Gavilanes, Camilo. See—
- Furst, Andor, Meier, Meyer, Gavilanes, and Rees. 3,148,182.
- Gavin, John C., to United Aircraft Corp. Pressure ratio bleed control. 3,137,210, 6-16-64, Cl. 91-47.
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- Gavurnik, Steven. See—
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- Gawlick, Heinz, and H. K. L. Stadler, to Dynamit Nobel Aktiengesellschaft. Stud cartridge shell. 3,120,808, 2-11-64, Cl. 102-44.

- Gawlitza, Franz, M. Hontzsch, and F. Schmidt, to Verband Deutscher Konsumgenossenschaften G.m.b.H. Method for the baking of bread and other bakery products with infrared rays. 3,119,354, 1-28-64, Cl. 107-54.
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- Gawthrop, Alan, to Neotechnic Engineering Ltd. Metering dispenser for aerosol with fluid pressure operated piston. 3,142,420, 7-28-64, Cl. 222-335.
- Gay-Bell Corp. See—
- Gay, Jacob D., Jr., and Joswig. 3,157,340.
- Gay, Benjamin A., L. R. Johnson, E. C. Sulze, and J. H. Carter, said Gay, said Sulze and said Carter assors, to United States of America, Navy. Zero-gravity release mechanism. 3,150,591, 9-29-64, Cl. 102-84.
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- Nicolaux, Genevieve J. M., Gay, Matet, Mauge, Sandevolr, and Wasmer. 3,145,233.
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- Gay-Lee Co. See—
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- Gayon, Leo A. Device for positioning siding. 3,133,357, 5-19-64, Cl. 33-187.
- Gaye, Gene G., and N. E. Maniere, to Sperry Rand Corp. Gyroscopic apparatus. 3,131,569, 5-5-64, Cl. 74-5.34.
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- Britten, Harold H., and Gayek. 3,161,818.
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- Gaylor, Robert B., to Outboard Marine Corp. Reclining chair frame. 3,162,481, 12-22-64, Cl. 297-65.
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- Grant, Chester A., and Strand. 3,142,437.
- Grant, Chester A., and Strand. 3,151,886.
- Magers, Lloyd E. 3,145,851.
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- Gaynes, Raymond A., to Mystik Tape, Inc. Pressure-sensitive adhesive tape for use at low and high temperatures. 3,161,533, 12-15-64, Cl. 117-68.5.
- Ganor, Edwin G. Combination push-push and momentary switch. 3,143,605, 8-4-64, Cl. 200-5.
- Gaz de France, Service National dit. See—
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- Gazale, Midhat J., to International Business Machines Corp. Multivalued logic element. 3,142,037, 7-21-64, Cl. 340-172.
- Gazdik, Eva. Radial cosmetic compact. 3,132,652, 5-12-64, Cl. 132-82.
- Gazdik, Eva. Multi-applicator for liquid cosmetic. 3,132,653, 5-12-64, Cl. 132-85.
- Geartight Unions Ltd. See—
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- Aronin, Lewis R., and Geary. 3,137,572.
- Geary, Daniel C., and R. W. Gaines, to Union Carbide Corp. Valve construction for aerosol dispensers of high solids slurries. 3,121,517, 2-18-64, Cl. 222-394.
- Geary, Robert J., to Plant Products Corp. Cyclic terpene N-methyl carbamates and pesticidal compositions containing same. 3,123,525, 3-3-64, Cl. 167-30.
- Geary, Robert J., to Plants Products Corp. Internal treatment of animals with resin bioecidal compositions. 3,162,573, 12-22-64, Cl. 167-53.
- Geary, William R. C. Hypodermic injection apparatus. 3,122,138, 2-25-64, Cl. 128-215.
- Geary, William R. C. Shearing apparatus for animals, especially sheep. 3,145,607, 8-25-64, Cl. 83-578.
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- Gebel, Radames K. H., to United States of America, Air Force. Screen raster photocathode having photoemissive and secondary emissive properties. 3,137,802, 6-16-64, Cl. 313-67.
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- Gebert, Gregory G., to Carrier Corp. Defrost control for refrigeration systems. 3,126,712, 3-31-64, Cl. 62-81.
- Gebhardt, James J., Jr. See—
- Sauer, James F., Gebhardt, and Martenson. 3,155,021.
- Gebhardt, Jerome G., and P. M. Cameron, to DCA Food Industries, Inc. Adjustable cutter disc. 3,143,085, 8-4-64, Cl. 107-14.
- Gebhardt, Willi, and K. Zerbst, to Fichtel & Sachs A.G. Planet carrier for planetary gear. 3,154,970, 11-3-64, Cl. 74-750.
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- Gebrueder Steidinger, Firm. See—
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- Gecewicz, Norbert A., to Automatic Canteen Co. of America. Currency testing apparatus. 3,127,598, 3-31-64, Cl. 340-282.
- Gecewicz, Norbert A., to Automatic Canteen Co. of America. Method and apparatus for currency testing. 3,131,798, 5-5-64, Cl. 194-4.
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- Geddes, Jay R., to International Business Machines Corp. Data storage access mechanism. 3,126,008, 3-24-64, Cl. 129-16.1.
- Gedon, Donald I. Combined pocket ash trays and cigarette cases. 3,143,116, 8-4-64, Cl. 131-238.
- Gedeon, Roy M., to Townmotor Corp. Control servomechanism. 3,156,135, 11-10-64, Cl. 74-732.
- Gedgaudas, Mindaugas E., and E. T. Klippenstein, to JRW Semiconductors, Inc. Vapor condensation doping method. 3,127,285, 3-31-64, Cl. 117-230.
- Gee, Bruce D. See—
- Mason, George W., Gee, and Kaczmarczyk. 3,145,939.
- Gee, Leroy J., and J. T. Chambers, to American Radiator & Standard Sanitary Corp. Electric thermal device. 3,132,320, 5-5-64, Cl. 338-28.
- Gee, Paul Y. C. See—
- Andress, Harry J., Jr., and Gee. 3,135,765.
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- Gee, Paul Y. C., and H. J. Andress, Jr., to Socony Mobil Oil Co., Inc. Succinamic metal salts in turbine oil. 3,121,057, 2-11-64, Cl. 252-33.6.
- Geedes, James C. Jr. See—
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- Geer, Norman F., to General Electric Co. Slot wedge retainer for electrical windings. 3,139,550, 6-30-64, Cl. 310-214.
- Geer, Ronald L. See—
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- Geer, William E., and E. B. Wilfley, to A. R. Wilfley, and Sons, Inc. Standpipe connection for centrifugal pumps. 3,131,642, 5-5-64, Cl. 103-111.
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- Geering, Emil J. See—
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- Glacalone, Dino B., to John R. Hollingsworth Co. Battery charging. 3,123,758, 3-3-64, Cl. 320-36.
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- Giacomini, Jean P., to Thonet Industries, Inc. Chair base. 3,151,830, 10-6-64, Cl. 248-188.7.
- Giacomoni, Remo U.: See—
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- Giaccosa, Dante, and G. Torazza, to Fiat Societa per Azioni. Cooling cylinder liners of internal combustion engines. 3,127,879, 4-7-64, Cl. 123-41.72.
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- Giainio, Edward C., Jr., to Radio Corp. of America. Powder cloud generating apparatus. 3,133,833, 5-19-64, Cl. 118-637.
- Giallanza, Sam J. Garment hanging clips. 3,133,327, 5-19-64, Cl. 24-81.
- Giammaria, John J., and E. M. Nygaard, to Socony Mobil Oil Co., Inc. Gasoline containing sulfide ignition control agents. 3,161,487, 12-15-64, Cl. 44-69.
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- Giannatasio, Henry L., to Pres-On Abrasives, Inc. Abrasive disc units. 3,119,208, 1-28-64, Cl. 51-195.
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- Giannini, Anthony P., to General American Transportation Corp. Sealing mechanisms for storage tanks. 3,119,511, 1-28-64, Cl. 220-26.
- Giannini Controls Corp.: See—
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- Giannini, Gabriel M., and A. C. Ducati, to Giannini Scientific Corp. High-voltage electrostatic generator. 3,122,660, 2-25-64, Cl. 310-6.
- Giannini, Gabriel M., and A. C. Ducati, to Giannini Scientific Corp. Electrical plasma-jet apparatus and method incorporating multiple electrodes. 3,149,222, 9-15-64, Cl. 219-121.
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- Gianola, Umberto F.: See—
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- Gianola, Umberto F., to Bell Telephone Laboratories, Inc. Electrical control circuits. 3,118,070, 1-14-64, Cl. 307-88.
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- Gianvecchio, Nicholas. Head rest attachments for automobile seats. 3,157,434, 11-17-64, Cl. 297-397.
- Gianzinetti, Nimo A.: See—
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- Gibbon, John, to Monroe Calculating Machine Co. Saturable magnetic device with elliptical core. 3,146,393, 8-25-64, Cl. 323-56.
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- Gibbons, A. Lucile: See—
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- Gibbons, Earl E., deceased, by A. L. Gibbons, administratrix, to A. L. Gibbons. Filling and weighing apparatus. 3,128,837, 4-14-64, Cl. 177-76.
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- Gibbs, Paul J., and T. P. Beggs. Geared speed changer. 3,148,556, 9-15-64, Cl. 74-325.
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- Gibson Electric Co.: See—
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- Gwyn, Childress B., Jr. 3,151,385.
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- Gibson, Glenn J., to The Carpenter Steel Co. Non-consumable electrode arc welding of tubing. 3,131,284, 4-28-64, Cl. 219-61.
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- Giffen, James W., to Corning Glass Works. Glass forming element and method of manufacture. 3,141,756, 7-21-64, Cl. 65-372.
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- Gifford, William E. Gas balancing refrigeration method. 3,119,237, 1-28-64, Cl. 62-6.
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Goff, Stillman R. 3,144,391.

Libby, Louis H. 3,156,656.

Muros, Joseph. 3,116,532.

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Safianoff, Albert. 3,122,146.

Safianoff, Albert. 3,149,757.

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Sinclair, Robert L. 3,139,985.

Sinclair, Robert L. 3,121,493.

Snap, Alfred L. 3,121,493.

Gillette, Harold R., 50% to G. H. Cooper. Automatic drain valve for boats. 3,155,067, 11-3-64, Cl. 114-185.

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Gillette, William M., Jr., O. A. McPeck, and F. S. Pearne, to Regent Jack Mfg. Co., Inc. Portable lifts. 3,154,206, 10-27-64, Cl. 214-330.

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Gillman, Eric J., and R. J. King, to National Research Development Corp. Spectropolarimeters. 3,153,762, 11-3-64, Cl. 88-14.

Gillman, Phillip J. Automatic uncoupling ramp for miniature railroad cars. 3,154,489, 5-26-64, Cl. 213-211.

Gillman, Joe L. Sinking artificial lure. 3,162,971, 12-29-64, Cl. 43-42.3.

Gillman, J. R.: See—
Wallace, Jeffrey J. 3,162,902.

Wallace, Jeffrey J. 3,162,903.

Wallace, Jeffrey J. 3,162,904.

Gilliatt, Cecil W., to Joseph T. Ryerson & Son, Inc. Automatic unhooking device for a chain sling. 3,149,874, 9-22-64, Cl. 294-75.

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Hoffman, Stanley G., Van Ess, and Gillick. 3,156,926.

Gillick, Thomas J., Jr., H. G. Hencken, and M. S. Parker, to American Felt Co. Wall covering. 3,160,448, 12-8-64, Cl. 161-151.

Gillies, James, and A. Reddish, to The M-O Valve Co. Ltd. Electron tube of transmission line type. 3,155,867, 11-3-64, Cl. 315-3.5.

Gilligham, Warren: See—
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Gilliland, Delbert C., 1/2 to H. R. Kwatkosky. Gravity level. 3,161,966, 12-22-64, Cl. 33-215.

Gilliland, Edwin R., and W. K. Lewis, to Esso Research and Engineering Co. Purification by crystallization with a volatile refrigerant. 3,137,554, 6-16-64, Cl. 62-58.

Gillingham, Ernest L., and J. O. Grunwald, to Jet Research Center, Inc. Fluid sensitive detonator assembly. 3,116,690, 1-7-64, Cl. 102-20.

Gillingham, James M., and J. C. Clark, to Diamond Laboratories, Inc. Piperazine-bithionol anthelmintic. 3,152,041, 10-6-64, Cl. 167-53.

Gillis, Marvin R., to International Minerals & Chemical Corp. Ore beneficiation process and agent. 3,129,166, 4-14-64, Cl. 209-166.

Gillissen, Josef: See—
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Gillman, Harold K., to Tobin Packing Co., Inc. Auto-folder. 3,131,614, 5-5-64, Cl. 93-52.

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Gillmer, Arnold H., to Hughes Aircraft Co. Doppler radar detection system. 3,140,486, 7-7-64, Cl. 343-8.

Gillmore, Alfred E., to G. O. Parachute Co. Ltd. Shock absorbing air cushions. 3,117,752, 1-14-64, Cl. 244-138.

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Gilman, Paul R., Jr., to Eastman Kodak Co. High-speed printout emulsions containing silver iodide and silver oxalate. 3,143,419, 8-4-64, Cl. 96-30.

Gilmont, Ernest R., to FMC Corp. Vulcanization of natural and synthetic rubbers with bis(tert-alkylperoxy) alkane. 3,129,304, 4-14-64, Cl. 260-83.3.

Gilmont, Ernest R., to FMC Corp. Bis(tert-alkylperoxy)-alkanes. 3,135,805, 6-2-64, Cl. 260-610.

Gilmont, Roger, to Roger Gilmont Instruments, Inc. Absolute pressure measuring device. 3,122,923, 3-3-64, Cl. 73-400.

Gilmont, Roger, to Manostat Corp. Open end McLeod-type gauge and method. 3,145,569, 8-25-64, Cl. 73-400.

Gilmont, Roger, and A. Anton, said Gilmont assor. to Manostat Corp. Condition indicating device. 3,117,448, 1-14-64, Cl. 73-362.

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Sheppard, Arthur D., and Gilmour. 3,151,083.

Gilpin, William V. Automatic excess fluid flow valve. 3,138,174, 6-23-64, Cl. 137-498.

Gilreath, Lafayette E. Hydraulic motor. 3,120,154, 2-4-64, Cl. 91-133.

Gilreath, Lafayette E. Hydraulic slip setting apparatus. 3,122,811, 3-3-64, Cl. 24-263.

Gilreath, Lafayette E. Hydraulic gear apparatus. 3,123,012, 3-3-64, Cl. 103-126.

Gilsdorf, Robert T., to E. I. du Pont de Nemours and Co. Preparation of organic titanates. 3,119,852, 1-28-64, Cl. 260-429.5.

Gilson, Albert R., and L. K. Parker. Apparatus for determining the melting point of a material. 3,153,337, 10-26-64, Cl. 73-17.

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Gilson, Paul R., to Burroughs Corp. Tape transport apparatus. 3,124,317, 3-10-64, Cl. 242-55.12.

Gilson, Paul R., to Beckman Instruments, Inc. Serial-to-parallel converter. 3,139,614, 6-30-64, Cl. 340-347.

Gilson, Paul R., to Burroughs Corp. Magnetic tape storage system for digital computers wherein an indication of the number of bits in a message is stored with the message. 3,141,151, 7-14-64, Cl. 340-172.5.

Gimber, George A.: See—
Cotilla, Edward J., and Gimber. 3,140,886.

Gimera, Ralph J.: See—
Welsner, Edward F., Woolsey, and Gimera. 3,152,049.

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Gindoff, Sol, to Pioneer Magnetic Inc. Wire stripping tool having heated filaments which open when jaws are closed. 3,139,777, 7-7-64, Cl. 81-9.5.

Gindroz, Frank H., Jr., to Electronic Specialty Co. Quick reversing mechanism. 3,139,761, 7-7-64, Cl. 74-68.

Gingrande, Arthur, and G. J. Marotta, to Western Electric Co., Inc. Mold for casting electrical component mounting panels. 3,120,029, 2-4-64, Cl. 18-47.

Gingrande, Arthur, and G. J. Marotta, to Western Electric Co., Inc. Method of casting electrical component mounting panels. 3,120,573, 2-4-64, Cl. 264-277.

Gingras, Marcel, to Dominion Corset Co., Ltd. Foundation garment. 3,137,300, 6-16-64, Cl. 128-524.

Gingras, Marcel, to Dominion Corset Co., Ltd. Foundation garments. 3,137,301, 6-16-64, Cl. 128-528.

Gingras, Marcel, to Dominion Corset Co., Ltd. Brassieres. 3,140,717, 7-14-64, Cl. 128-503.

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Ginsburg, Henry. Dispensing container for liquids. 3,146,806, 9-1-64, Cl. 141-110.

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Gintner, Walter B., to North American Aviation, Inc. Glove ventilating system. 3,121,877, 2-25-64, Cl. 2-159.

Gloner, Edmond R., to General Motors Corp. Hinge and hold open. 3,124,830, 3-17-64, Cl. 16-140.

Glonet, Edmond R., to General Motors Corp. Closure hinge. 3,153,260, 10-20-64, Cl. 16-142.

- Giordani, Carlo. Accordion type folding closure. 3,126,943, 3-31-64, Cl. 160-84.
- Giordano, Ames F., to International Telephone and Telegraph Corp. Color pattern display system. 3,117,488, 1-14-64, Cl. 88-24.
- Giordano, Salvatore, to United States of America, Atomic Energy Commission. Non-reflective liquid termination of a coaxial cable. 3,121,204, 2-11-64, Cl. 333-22.
- Giorgini, Norman L.: See—
- Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,163,755.
- Giovagnoli, Paul S. Baseball pitching apparatus. 3,136,308, 6-9-64, Cl. 124-7.
- Giovagnoli, Paul S. Pump. 3,156,189, 11-10-64, Cl. 103-87.
- Giovannetti, Angelo, Jr., R. M. Himmelright, K. A. Meyer, and H. Nitta, to United States of America, National Aeronautics and Space Administration. High-temperature, high-pressure spherical segment valve. 3,158,172, 11-24-64, Cl. 137-340.
- Giovannetti, Fiorello. Sheet metal expansion anchor adapted to clamp the screw upon insertion thereof. 3,148,579, 9-15-64, Cl. 85-834.
- Gipe, Charles W.: See—
- Paynter, Allison L., and Gipe. 3,128,732.
- Giraitis, Albert P.: See—
- Johnston, James D., Shapiro, and Giraitis. 3,133,104.
- Giraitis, Albert P., H. Shapiro, and J. D. Johnston, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,133,105, 5-12-64, Cl. 260-437.
- Giraitis, Albert P., P. Kobetz, and H. Shapiro, to Ethyl Corp. Organo-lead compounds of ethylene glycols. 3,147,293, 9-1-64, Cl. 260-437.
- Giraitis, Albert P., V. Norman, and T. P. Whaley, to Ethyl Corp. Preparation of supported nickel catalysts. 3,162,606, 12-22-64, Cl. 252-466.
- Giraldi, Piericola, D. Artini, G. Nannini, and W. Logemann, to Carlo Erba S.p.A. Acylated s-triazines and process for their preparation. 3,118,888, 1-21-64, Cl. 260-249.9.
- Girard, James: See—
- Mixer, Richard A., and Girard. 3,133,877.
- Girard, Christian F., to Canadian International Paper Co. Insulating wall board sizing. 3,138,480, 6-23-64, Cl. 117-65.2.
- Girard, Jacques G. C.: See—
- Quesnel, Georges, Girard, Thlot, Coates, and Brown. 3,121,731.
- Girard, Jacques G. C., A. Thlot, and G. Quesnel, to La Bakelite, and Omnium de Produits Chimiques pour l'Industrie et l'Agriculture "OPCIA." Method of preparation and blends thereof with phenolaldehyde resins. 3,121,697, 2-18-64, Cl. 260-2.
- Girard, Peter F.: See—
- Ryan, Tubal C., and Girard. 3,159,360.
- Girard, Peter F., to The Ryan Aeronautical Co. Auxiliary boom control for Rogallo type wing aircraft. 3,135,483, 6-2-64, Cl. 244-75.
- Girard, Peter F., to The Ryan Aeronautical Co. Heliplane. 3,146,970, 9-1-64, Cl. 244-7.
- Girard, Theodore A., to Heyden Newport Chemical Corp. Process for the control of silene-forming and other micro-organisms with chlorophenyltrichloromethyl carbonyl. 3,151,018, 9-29-64, Cl. 162-161.
- Girard, Peter F., to Ryan Aeronautical Co. Articulated spreader bar lateral control system for flexible wing aircraft. 3,152,778, 10-13-64, Cl. 244-46.
- Girard, Peter F., to The Ryan Aeronautical Co. Convertiplane. 3,155,341, 11-3-64, Cl. 244-7.
- Girard, Theodore A.: See—
- Fischer, Alfred, and Girard. 3,124,475.
- Gradsten, Marcel A., and Girard. 3,154,518.
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- Eschnasi, Emilie H., and Cotter. 3,163,658.
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- Allais, Andre, and Girault. 3,132,146.
- Allais, Andre, and Girault. 3,150,047.
- Allais, Andre, and Girault. 3,151,026.
- Warant, Julien, Jolly, Allais, and Girault. 3,156,713.
- Girault, Pierre, to C.S.F.-Compagnie Generale de Telegraphie Sans Fil. Miss distance indicator. 3,140,488, 7-7-64, Cl. 343-12.
- Girden, Barney B. Swimmer's buoy. 3,123,845, 3-10-64, Cl. 9-311.
- Girdler Corp.: See—
- Mayland, Bertrand J. 3,144,301.
- Girling Ltd.: See—
- Parton, Clifford J. 3,122,218.
- Riddy, Frederick T. 3,157,250.
- Riddy, Frederick T. 3,160,236.
- Sadler, Francis A. D. 3,138,071.
- Wilkins, Douglas H., and Hopkins. 3,148,871.
- Wilson, Alexander J. 3,143,000.
- Girman, Bernard A.: See—
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- Giot, Pierre, to Le Methane Liquide, and Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara, "S.E.G.A.N.S." Connecting element for expansion joints. 3,118,523, 1-21-64, Cl. 189-34.
- Girotti, Enrico. Instrument for checking the punched cards used in accounting and statistical machines. 3,134,839, 5-26-64, Cl. 88-14.
- Girouard, Phyllis H., C. V. Hickman (deceased, by J. W. Hickman, administratrix for said C. V. Hickman), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Empty case ejector for automatic gun systems. 3,136,212, 6-9-64, Cl. 89-33.
- Girouard, Phyllis H., C. V. Hickman (deceased, by J. W. Hickman, administratrix for said C. V. Hickman), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Gun mount with shield means. 3,136,214, 6-9-64, Cl. 89-36.
- Girouard, Phyllis H., C. V. Hickman (deceased, by J. W. Hickman, administratrix), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Breech block operating mechanism. 3,144,809, 8-18-64, Cl. 89-4.
- Girouard, Phyllis H., C. V. Hickman (deceased, by J. W. Hickman, administratrix), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Breech block and ejector assembly. 3,146,671, 9-1-64, Cl. 89-24.
- Girouard, Phyllis H., C. V. Hickman (deceased, by J. W. Hickman, administratrix), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Means for charging hydraulic systems for guns. 3,146,672, 9-1-64, Cl. 89-43.
- Giroud, Henri P. Humidifiers. 3,127,106, 3-31-64, Cl. 237-78.
- Giroux, Anthony E., and J. R. Hulme, to Halliburton Co. Pump. 3,143,075, 8-4-64, Cl. 103-37.
- Gish, John W. Non-glare lamp. 3,130,924, 4-28-64, Cl. 240-41.3.
- Gisholt Machine Co.: See—
- Flbikar, Robert J., and Senger. 3,159,059.
- Greiner, Richard A. 3,128,395.
- Sethne, Norman C. 3,116,843.
- Gisiger-Stahl, Joseph, and H. Benn. Combined timepiece and time-controlled switch. 3,146,324, 8-25-64, Cl. 200-37.
- Gislaeson, Thorstein, to Sporlan Valve Co. Head pressure control for refrigeration system. 3,149,475, 9-22-64, Cl. 62-197.
- Gisser, Henry, J. Messina, and S. Portnoy, to United States of America, Army. Lubricating process using non-spreading lubricants. 3,133,021, 5-12-64, Cl. 252-34.7.
- Gist, John F., to G. & A. Firkins Ltd. Means for handling finely divided material. 3,155,287, 11-3-64, Cl. 222-189.
- Gist, John I. Fifth wheel. 3,146,040, 8-25-64, Cl. 308-222.
- Gist Mfg. Co.: See—
- Crane, Jack P. 3,156,106.
- Gist, Newman H., and S. G. Fowler. Self-cleaning racing plate. 3,159,220, 12-1-64, Cl. 168-24.
- Gister, Sidney: See—
- Reisner, David B., Gister, and Klein. 3,124,507.
- Reisner, David B., Gister, and Klein. 3,124,588.
- Gittin, Robert M., and R. L. Muller, to American Aerospace Controls, Inc. Angular error compensating device. 3,149,482, 9-22-64, Cl. 64-24.
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- Jensen, Hans, and Andersen. 3,120,959.
- Warner, Dale J. 3,120,879.
- Gits, J. P., Molding Corp.: See—
- Gits, Jules P. 3,148,233.
- Gits, Jules P. Molded articles and methods of making same. 3,130,856, 4-28-64, Cl. 220-31.
- Gits, Jules P. Molded articles and methods of making same. 3,132,649, 5-12-64, Cl. 129-24.
- Gits, Jules P., to J. P. Gits Molding Corp. Methods of making molded articles. 3,148,233, 9-8-64, Cl. 264-161.
- Gitter, Roy E., to International Telephone and Telegraph Corp. Recurring signalling condition detector. 3,144,514, 8-11-64, Cl. 179-15.
- Gittinger, William C.: See—
- Carlozzi, Michael, and Gittinger. 3,148,113.
- Gittins, William G., and C. H. Close. Manufacture of plastic covered panels for use in building construction. 3,139,101, 4-21-64, Cl. 156-163.
- Gittleman, Herman M.: See—
- Greenfield, Anthony F. 3,141,690.
- Gittler, Allan. Printing device. 3,120,163, 2-4-64, Cl. 95-75.
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- Graves, Donald L., and Giuffrida. 3,143,162.
- Giuffrida, Philip, to Electronics Corp. of America. Combustion control system. 3,154,724, 10-27-64, Cl. 317-130.
- Giuliani, Adamo. Automatic automobile cigarette lighter with case. 3,143,245, 8-4-64, Cl. 221-147.
- Giulio, Joe D., to Illumitronic Systems Corp. Weighing cell. 3,148,742, 9-15-64, Cl. 177-46.
- Giulio, Joe D., and C. F. Peasley, to Illumitronic Systems Corp. Rejection system. 3,129,803, 4-21-64, Cl. 198-31.
- Giulini, Gehrhard, G.m.b.H.: See—
- Garre, Bernhard. 3,117,867.
- Giulitto, Vito F.: See—
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- Giustiniani, Piero, G. Natta, M. Farina, G. Mazzanti, and G. Crespi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Polymer compositions and textile fibers produced therefrom. 3,151,185, 9-29-64, Cl. 260-889.
- Giustiniani, Piero, G. Natta, G. Mazzanti, and G. Crespi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Poly-alpha-olefin composition having improved dye affinity. 3,153,680, 10-20-64, Cl. 260-45.5.
- Givaudan Corp.: See—
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- Wood, Thomas F., and Angiolini. 3,151,174.
- Wood, Thomas F., and Angiolini. 3,152,192.
- Given, Richard L., R. G. Nyder, and R. C. Lee, to United States of America, Navy. Four layer diode transmission gate. 3,124,701, 3-10-64, Cl. 307-88.5.
- Givon, Bernd S.: See—
- Chubb, Donald E., and Givon. 3,150,277.
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- Bocquentin, Jacques, and Givry. 3,159,561.
- Gldich, Jerry M. Portable automobile stop signal. 3,121,416, 2-18-64, Cl. 116-28.
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- Gleski, Terrence. Digital control system. 3,162,365, 12-22-64, Cl. 235-200.
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- Gjerken, Haakon. 3,148,363.
- Gjerken, Haakon, to Gjerken Elektro A/S. Electric temperature control and fire alarm system. 3,148,363, 9-8-64, Cl. 340-227.
- Gjertsen, Paul R. Mold apparatus used in making ceramic and abrasive products. 3,161,937, 12-22-64, Cl. 25-119.
- Gjessvag, Oyvind: See—
- Eriksson, Elov E., Gjessvag, and Olsson. 3,126,508.
- Szarvas, Gyorgy, and Gjessvag. 3,149,238.
- Glabe, Elmer F., to Food Technology, Inc. Method of making continuous-mix bread. 3,121,013, 2-11-64, Cl. 99-90.
- Glabe, Elmer F., to J. H. Kraft. Partially hydrolyzed roasted sesame food product and process for producing same. 3,134,671, 5-26-64, Cl. 99-80.
- Glabisch, Dietrich, W. Becker, and I. Dennstedt, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of thermally stable acrylonitrile polymers having an improved dyeing capacity. 3,128,361, 3-24-64, Cl. 260-78.
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- Long, Bernard. 3,116,863.
- Glacier Metal Co. Ltd.: See—
- Fulford, Bruce B. 3,132,418.
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- Gladding, Edward K., to E. I. du Pont de Nemours and Co. Olefin copolymerization catalyst. 3,147,230, 9-1-64, Cl. 252-429.
- Gladding, Edward K., to E. I. du Pont de Nemours and Co. Ethylene polymers prepared in the form of a coherent film at a quiescent liquid catalyst surface. 3,162,620, 12-22-64, Cl. 260-80.5.
- Gladding, Edward K., and K. A. Saegbarth, to E. I. du Pont de Nemours and Co. Process for preparing vanadium tris (acetylacetonate). 3,119,851, 1-28-64, Cl. 260-429.
- Glade, Leonard: See—
- Willits, Myron H. 3,154,018.
- Gladieux, Norman K.: See—
- Badger, Alfred E., Gladieux, and King. 3,137,556.
- Gladieux, Norman K., G. F. Ritter, Jr., and A. E. Badger, to Libbey-Owens-Ford Glass Co. Method and apparatus for supporting sheet material. 3,150,948, 9-29-64, Cl. 65-25.
- Gladrow, Elroy M.: See—
- De Feo, Richard J., and Gladrow. 3,157,591.
- Mattox, William J., and Gladrow. 3,121,754.
- Gladson, Curtis L.: See—
- Neil, Hugh G., Gladson, and Wiklund. 3,126,450.
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- Glaenger Spicer Societa Anonima: See—
- Orain, Michel. 3,125,870.
- Glaesener, Ernest. Steel making. 3,151,976, 10-6-64, Cl. 75-53.
- Glahe, Erwin, to Durrwerke Aktiengesellschaft. Device for low load operation of once-through boilers. 3,120,839, 2-11-64, Cl. 122-406.
- Glahe, Frederick W., to Wilson Athletic Goods Mfg. Co., Inc. Chest protector. 3,125,762, 3-24-64, Cl. 2-2.
- Glaisher, Edward J., to North American Phillips Co., Inc. Time-base circuit for magnetic beam deflection. 3,133,228, 5-12-64, Cl. 315-27.
- Glamann, Wilhelm. Internal combustion engines. 3,143,849, 8-11-64, Cl. 60-13.
- Glamorene Industries Factors, Inc.: See—
- Kahan, Mortimer J. 3,119,695.
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- Glasby, Alan G. S., to Alan Glasby and Co. Ltd. Apparatus for generating aerosols. 3,138,328, 6-23-64, Cl. 239-77.
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- Glasby, Francis G., to Robinson & Sons Ltd. Method for the production of spirally wound containers. 3,139,011, 6-30-64, Cl. 93-80.
- Glasby, Francis G., to Robinson & Sons Ltd. Method and apparatus for cutting spirally wound tubes in accurate register. 3,150,574, 9-29-64, Cl. 93-80.
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- Glaser, David, and W. I. de Versterre, to Burroughs Corp. Signal converters. 3,140,480, 7-7-64, Cl. 340-347.
- Glaser, David, and G. P. Hlavka, to Burroughs Corp. Photo-sensitive light gun. 3,151,248, 9-29-64, Cl. 250-227.
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- Glaser, Jerry, to The Garrett Corp. Gimbal mount for bearings and other devices. 3,131,003, 4-28-64, Cl. 308-22.
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- Glaser, Peter E., A. Pastuhov, and L. R. B. Hervey, to Arthur D. Little, Inc. Process for forming insulation and resulting product. 3,124,853, 3-17-64, Cl. 20-101.
- Glaser, Peter E., W. A. Salmon, and A. G. Emslie, to Arthur D. Little, Inc. Insulation. 3,151,364, 10-6-64, Cl. 20-4.
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- Golay, Marcel J. E. Aligning means and optical system for radiation detectors. 3,155,828, 11-3-64, Cl. 250-83.3.
- Gold, Allan R., and G. M. Baumann, to Ziff-Davis Publishing Co. Attenuator spraying device. 3,125,296, 3-17-64, Cl. 239-216.
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- Gold, David, to Irving Air Chute Co., Inc. Quick divestible parachute harness. 3,154,272, 10-27-64, Cl. 244-151.
- Gold, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of N,N'-tetra-substituted 3-amino-2-azaprop-2-en-1-ylidene ammonium halides. 3,155,651, 11-3-64, Cl. 260-240.
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- Gold, Nicholas, to Polaroid Corp. Apparatus for treating photographic sheet materials with a processing fluid. 3,120,794, 2-11-64, Cl. 95-89.
- Gold, Nicholas, and A. J. Sable, to Polaroid Corp. Self-developing camera. 3,134,313, 5-26-64, Cl. 95-13.
- Gold, Nicholas, and A. J. Sable, to Polaroid Corp. Photographic light source. 3,139,018, 6-30-64, Cl. 95-77.5.
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- Gold, Robert L., and S. Schnell, to Wagner Electric Corp. Retarder valve and brake system. 3,118,706, 1-21-64, Cl. 303-6.
- Gold, Robert L., and S. Schnell, to Wagner Electric Corp. Retarder valve. 3,118,708, 1-21-64, Cl. 303-40.
- Gold, Samuel, C. D. Marotta, and M. A. Kucler, to National Starch and Chemical Corp., and to Birge Co., Inc. Process for making remoisenable adhesive coatings and products resulting therefrom. 3,122,446, 2-25-64, Cl. 117-62.1.
- Gold, Theodore, to Sperry Rand Corp. Flight control systems. 3,128,623, 4-11-64, Cl. 73-178.
- Gold, Theodore, to Sperry Rand Corp. Aircraft performance monitoring apparatus. 3,148,540, 9-15-64, Cl. 73-178.
- Gold, Vance B., to American Can Co. Body maker and method. 3,117,214, 1-7-64, Cl. 219-64.
- Goldann, Karl, to Bohme Fettechemie G.m.b.H. Method for the manufacture of alkali metal or alkaline earth metal sulphates of high-molecular, unsaturated fatty alcohols. 3,120,552, 2-4-64, Cl. 260-459.
- Goldbeck, Bernard H., and V. V. D'Amato, to The A. C. Gilbert Co. Spreadable coupler for HO gauge model railroad vehicles. 3,140,784, 7-14-64, Cl. 213-75.
- Goldberg, Abraham A.: See—
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- Goldberg, Alan A., and H. J. Smith, to The Pyrethrum Board of Kenya. Production of purified pyrethrum extract. 3,133,004, 5-12-64, Cl. 202-52.
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- Goldberg, Albert I., J. Fertig, and M. Skoultschi, to National Starch and Chemical Corp. Ethylenically unsaturated derivative of ortho-dihydric phenols. 3,156,720, 11-10-64, Cl. 260-486.
- Goldberg, Albert I., M. Skoultschi, and J. Fertig, to National Starch and Chemical Corp. Ethylenically unsaturated derivatives of 2,4-dihydroxybenzophenone. 3,162,676, 12-22-64, Cl. 260-486.
- Goldberg, Bernard, to United States of America, Army. Frequency shift transmission system. 3,117,305, 1-7-64, Cl. 340-171.
- Goldberg, Eugene P., to General Electric Co. Resinous compositions. 3,157,622, 11-17-64, Cl. 260-77.5.
- Goldberg, Eugene P., to General Electric Co. Resinous copolymeric polycarbonate of a mixture of dihydric phenols. 3,161,615, 12-15-64, Cl. 260-47.
- Goldberg, Harold D., and M. I. Method and apparatus utilizing a conductor loop in a magnetic field for measuring areas and related quantities. 3,142,796, 7-28-64, Cl. 324-71.
- Goldberg, Harry, 15% to R. Kelton, 75% to H. R. Levin, 75% to G. C. Hashizaki, and 125% to G. Evans. Automatic pocket pressing machine. 3,152,736, 10-13-64, Cl. 223-88.
- Goldberg, Hilary: See—
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- Goldberg, Martin, to Olin Mathieson Chemical Corp. Stable compositions of alkali metal salts of synthetic penicillins and polyacetic acids. 3,141,822, 7-21-64, Cl. 167-65.
- Goldberg, Max. Servo-mechanisms. 3,130,597, 4-28-64, Cl. 74-388.
- Goldberg, Max, and R. Garwin. Die cutting press. 3,149,323, 9-22-64, Cl. 83-534.
- Goldberg, Milton I.: See—
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- Goldberg, Moses W., and M. Müller, to Hoffmann-La Roche Inc. N-(α -methyl-2,4-dichlorophenethyl) hydroxylamine and its salts. 3,118,933, 1-21-64, Cl. 260-501.
- Goldberg, Moses W., and L. M. Jampolsky, to Hoffmann-La Roche Inc. Phenanthrene carboxamides and derivatives thereof. 3,123,611, 3-3-64, Cl. 260-294.7.
- Goldberg, Moshe. Device for holding and delivering coins. 3,136,322, 6-9-64, Cl. 133-5.
- Goldberg, William P.: See—
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- Goldberger, Richard H. Process of uniformly blending finely divided cement, sand and pigment. 3,152,793, 10-13-64, Cl. 259-146.
- Goldbohm, Erich. Antenna array and simultaneous lobing tracking system. 3,136,993, 6-9-64, Cl. 343-7.4.
- Golde, Dimitri, to Le Chassis Metallique Belge "Chamebel" Societe Anonyme. Roller blind mountings. 3,163,204, 12-29-64, Cl. 160-26.
- Golde, H. T. G.m.b.H., & Co. K.G.: See—
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- Werner, Johannes. 3,163,054.
- Golde, Hans. Manually operable device for operating a sliding roof. 3,148,913, 9-15-64, Cl. 290-137.
- Goldenberg, Robert L., and H. Akrongold, to Shulton, Inc. Cold wave lotion package. 3,141,825, 7-21-64, Cl. 167-87.1.
- Golden Arrow Mfg. Ltd.: See—
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- Golden, Carl E. Liquid petroleum gas vaporizer. 3,153,439, 10-20-64, Cl. 158-53.
- Golden, John T. Quick opening oil saver. 3,116,930, 1-7-64, Cl. 277-66.
- Golden, Kenneth E., to Sawyers, Inc. Slide projector. 3,130,637, 4-28-64, Cl. 88-28.
- Golden, Louis D., to Caterpillar Tractor Co. Two turn induction block with integral quench. 3,143,628, 8-4-64, Cl. 219-10.49.
- Golden, Norman R. Cutting tooth. 3,153,867, 10-27-64, Cl. 37-191.
- Golden, Robert K., to International Business Machines Corp. Magnetic core analog to digital converter. 3,123,817, 3-3-64, Cl. 340-347.
- Golden, Ruben L. Jarring tool. 3,139,933, 7-7-64, Cl. 166-178.
- Goldenberg, Max. Servo-mechanisms. 3,130,597, 4-28-64, Cl. 74-388.
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- Goldfarb, Adolph E. Calculator. 3,127,686, 4-7-64, Cl. 35-31.
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- Goldfarb, Erwin J.: See—
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- Goldfarb, Samuel, to General Precision Inc. Rotary speed regulator. 3,132,522, 5-12-64, Cl. 74-1.5.
- Goldfarb, Stanley. Convertible hobby horse. 3,161,417, 12-15-64, Cl. 250-7.1.
- Goldfein, Harold A.: See—
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- Goldfischer, Lester I., to General Precision, Inc. Aircraft doppler measuring system. 3,134,102, 5-19-64, Cl. 343-9.
- Goldfischer, Lester I., D. H. Grossman, and R. M. Pincus, to General Precision, Inc. Adjustable heat frequency oscillator having multiple frequency outputs. 3,134,081, 5-19-64, Cl. 331-38.
- Goldfischer, Lester I., S. K. Benjamin, and R. M. Pincus, to General Precision, Inc. Doppler frequency tracker. 3,139,618, 6-30-64, Cl. 343-9.
- Goldhaft, Lewis M., and N. E. Wernicoff, to Vineland Poultry Laboratories. Method of introducing adjuvants into avian egg interiors. 3,120,834, 2-11-64, Cl. 119-1.
- Golich, David E., to The Permalux Co. Liquid dispenser. 3,161,904, 12-22-64, Cl. 15-528.
- Golding, Frank E.: See—
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- Golding, William F. Apparatus for separating waste and work in cut sheets. 3,117,499, 1-14-64, Cl. 93-36.
- Golding, William F. Apparatus for converting oscillating into intermittent motion. 3,124,964, 3-17-64, Cl. 74-88.
- Goldingay, Charles H., to Joseph Lucas (Industries) Ltd. Means for closing the filling orifices of electric storage batteries. 3,161,548, 12-15-64, Cl. 136-177.
- Goldkamp, Arthur H., to G. D. Searle & Co. 4-chloro-6-(hydroxylamino)-1,3-benzenedisulfonamides and intermediate. 3,125,589, 3-17-64, Cl. 260-397.7.
- Goldkamp, Arthur H., to G. D. Searle & Co. 3,17-bisoxigenated 16 α ,16 β -difluoroandrosterones and process. 3,148,198, 9-8-64, Cl. 260-397.3.
- Goldman, Alan L., to General Precision, Inc. Parallel parity checker. 3,150,350, 9-22-64, Cl. 340-146.1.
- Goldman, Arthur J., and G. Breidenbach, to United States of America, Atomic Energy Commission. Steam-water mixing device for steam-cooled reactor. 3,150,053, 9-22-64, Cl. 176-54.
- Goldman, Edward J., and L. C. Babb, to Walworth Co. Gas valves. 3,133,723, 5-19-64, Cl. 251-309.
- Goldman, Henry, to Shepard Airtronics, Inc. Button assembly for pilot's helmet. 3,117,322, 1-14-64, Cl. 2-6.

- Goldman, Isidore. Positioning swivel for revolver holsters. 3,117,708, 1-14-64, Cl. 224-2.
- Goldman, Jerome N., and M. A. Aquariums and three-dimensional display therefor. 3,121,417, 2-18-64, Cl. 119-5.
- Goldman, Joshua. Apparatus for converting a tubular web to a flat web. 3,132,986, 5-12-64, Cl. 156-427.
- Goldman, Lawrence, and H. E. Weller, to Western Electric Co., Inc. Apparatus for continuously moving a strand through an extruder at a constant speed. 3,163,372, 12-29-64, Cl. 242-47.08.
- Goldman, Leon: See—
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- Goldman, Martin, to Ratsey Safety Belts, Inc. Seat belt buckle. 3,147,530, 9-8-64, Cl. 24-230.
- Goldman, Marvin A.: See—
Goldman, Jerome N., and M. A. 3,121,417.
- Goldman, Max, and M. Wallenfels, to E. I. du Pont de Nemours and Co. Process of treating polymeric film. 3,141,912, 7-21-64, Cl. 264-95.
- Goldman, Percy. Water sweeper attachment for garden hose. 3,144,211, 8-11-64, Cl. 239-532.
- Goldman, Sanford D. Continuous dental matrix unit. 3,147,552, 9-8-64, Cl. 32-63.
- Goldman, Tibor Z. Periscope rear view apparatus for vehicles. 3,127,191, 3-31-64, Cl. 280-87.
- Goldmark, Peter C., to United States of America, Navy. Automatic jamming system. 3,142,060, 7-21-64, Cl. 343-18.
- Goldmuntz, Lawrence, to TRG, Inc. Fixed tracker radar system. 3,153,233, 10-13-64, Cl. 343-8.
- Golner, Arthur: See—
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- Golner, George R.: See—
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- Goldschen, David. Package for plastic articles. 3,136,416, 6-9-64, Cl. 206-56.
- Goldsborough, James M. Machine and method for making ice. 3,130,556, 4-28-64, Cl. 62-73.
- Goldsby, Arthur R., D. K. Beavon, and H. Flynn, to Texaco Inc. Alkylation process. 3,121,126, 2-11-64, Cl. 260-683.62.
- Goldschmidt, Eric N., to Warner-Lambert Pharmaceutical Co. 5-(4-biphenyl)-3-methylvaleric acid and functional derivatives thereof. 3,120,551, 2-4-64, Cl. 260-455.
- Goldschmidt, H., & Associates, Inc.: See—
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- Goldsmith, Bernard M., and W. Sutton, Jr., to Nytronics, Inc. Melttable plastic spacer for securing coil to tubular support and housing, and method of assembly. 3,138,771, 6-23-64, Cl. 336-92.
- Goldsmith, Clifford H.: See—
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- Goldsmith, Edwin A., to California Research Corp. Hydrodealkylation of alkylbenzenes. 3,151,175, 9-29-64, Cl. 260-672.
- Goldsmith, Henry A., to Purex Corp. Process and device for detecting the intensity of ultrasonic energy. 3,134,728, 5-26-64, Cl. 204-1.
- Goldsmith, Henry A., and R. B. Roessler, to Purex Corp., Ltd. Coating remover composition. 3,138,556, 6-23-64, Cl. 252-136.
- Goldsmith, Paul H., to International Harvester Co. Transmission control mechanism. 3,122,941, 3-3-64, Cl. 74-473.
- Goldsmith, Thomas L.: See—
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- Goldstein, Arnold. Illumination diffuser construction. 3,124,308, 3-10-64, Cl. 240-46.01.
- Goldstein, Arthur. Electrical radiant panel heater. 3,153,138, 10-13-64, Cl. 219-34.
- Goldstein, Arthur M., and E. N. Alter, to Stein, Hall & Co., Inc. Stabilized galactomannan gum solutions and process. 3,146,200, 8-25-64, Cl. 252-8.5.
- Goldstein, Daniel, to Schenley Industries, Inc. Combination shipping container and display device. 3,123,207, 3-3-64, Cl. 206-44.
- Goldstein, Daniel, to Schenley Industries, Inc. Combined container for bottles and advertising display. 3,133,632, 5-19-64, Cl. 206-44.
- Goldstein, Daniel, to Schenley Industries, Inc. Combination shipping container and display device. 3,152,687, 10-13-64, Cl. 206-44.
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- Goldstein, David J., and S. S. Grimley, to Canadian Industries Ltd. Viscosity compensated flowmeter. 3,143,880, 8-11-64, Cl. 73-205.
- Goldstein, George. Wrist band key holder. 3,119,249, 1-28-64, Cl. 70-456.
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- Goldstein, Herman B., M. A. Silvestri, and J. V. Simonian, to Sun Chemical Corp. Creaseproofing compositions for textiles. 3,116,967, 1-7-64, Cl. 8-115.6.
- Goldstein, Irving S., and W. J. Oberley, to Koppers Co., Inc. Process for making plywood. 3,137,607, 6-10-64, Cl. 156-281.
- Goldstein, Irving S., and W. A. Dreher, to Koppers Co., Inc. Method of imparting fire retardance to wood and the resulting product. 3,159,503, 12-1-64, Cl. 117-137.
- Goldstein, Irving S., and W. J. Oberley, to Koppers Co., Inc. Method of treating wood with an improved fire retardant composition. 3,160,515, 12-8-64, Cl. 117-62.1.
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- Goldstein, Lester, L. Joseph, M. S. Silberstein, and A. A. Weinstein, to United States of America, Atomic Energy Commission. Nuclear reactor. 3,149,043, 9-15-64, Cl. 176-17.
- Goldstein, Mark, to Container Corp. of America. Web-corner carton with integral cover. 3,156,403, 11-10-64, Cl. 229-31.
- Goldstein, Milton. Method and apparatus for inserting resilient rods into flexible tubes. 3,139,677, 7-7-64, Cl. 29-451.
- Goldstein, Sam, Inc.: See—
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- Goldstein, Samuel E., to Whitehall Electronics Corp. Angularly adaptive rod antenna mount. 3,134,847, 5-26-64, Cl. 174-153.
- Goldstone, Edward G., to Allen Industries, Inc. Apparatus for edge-turning of covers on door panels. 3,146,150, 8-25-64, Cl. 156-444.
- Goldtrap, Charley L., to Twentieth Century Products Corp. Toilet tank supply valve assembly. 3,144,874, 8-18-64, Cl. 137-414.
- Goldtrap, Charley L., to Twentieth Century Products Corp. Toilet tank supply valve assembly. 3,144,875, 8-18-64, Cl. 137-414.
- Goldwater, Robert, and F. B. Calhoun, to Safeway Stores, Inc. Store ordering system and apparatus. Re. 25,600, 6-16-64, Cl. 178-4.
- Goller, Jacques: See—
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- Golightly, James S., to Pittsburgh Plate Glass Co. Glass bending apparatus. 3,163,514, 12-29-64, Cl. 65-288.
- Golightly, James S., D. H. Doehliert, and C. R. Davidson, Jr., to Pittsburgh Plate Glass Co. Apparatus for bending glass sheets to compound curvatures. 3,161,493, 12-15-64, Cl. 65-158.
- Gollaher, Merton G., and P. A. Guercio, to Chas. Pfizer & Co., Inc. Antibiotic recovery process. 3,121,714, 2-18-64, Cl. 260-210.
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- Goller, Robert L., F. D. Hamm, and P. E. Grindrod, to Oscar Mayer & Co., Inc. Package of materials which are subject to undesirable deterioration. 3,131,069, 4-28-64, Cl. 99-174.
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- Golonski, Leslie P., and R. Staral, to Motorola, Inc. Stereo reproduction system with common reverberation and bass center channel. 3,126,455, 3-24-64, Cl. 179-100.1.
- Göltner, Wolfgang, and P. Schlack, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of acrolein copolymers. 3,136,742, 6-9-64, Cl. 260-73.
- Golub, Samuel J., and N. E. Silbert, to Activator Inc. Orally ingestible compositions and method of preparing same. 3,117,866, 1-14-64, Cl. 99-2.
- Golucke, Karl, and F. Müller, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for preheating of fine-grain material. 3,146,998, 9-1-64, Cl. 263-21.
- Golumbo, Jerome J., and F. Realmuto, to David Wolf, Esq. Vending machine. 3,152,721, 10-13-64, Cl. 221-129.
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Gomm, Albert S., L. B. Morgan, and L. Wood, to Imperial Chemical Industries Ltd. Process of incorporating aqueous pigment composition in viscose. 3,156,574, 11-10-64, Cl. 106-105.

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Goncz, John H., to Edgerton, Germeshausen & Grier, Inc. Faraday shield suppressor for secondary emission current in crossed electric and magnetic field electronic tubes. 3,148,298, 9-8-64, Cl. 313-106.

Gonda, Tibor, to International Business Machines Corp. Transmission line filter having coupling extending quarter wave length between strip line resonators. 3,142,808, 7-28-64, Cl. 333-73.

Gonda, Tibor, to International Business Machines Corp. Coupling between and through stacked circuit planes by means of aligned waveguide sections. 3,150,336, 9-22-64, Cl. 333-33.

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Gondek, John T. Work positioning tables. 3,126,768, 3-31-64, Cl. 77-64.

Gondek, John T., to United States of America, Navy. Torpedo tube cover. 3,145,617, 8-25-64, Cl. 89-1.

Gondek, John T., to United States of America, Navy. Device for loading a torpedo tube. 3,162,170, 12-22-64, Cl. 114-238.

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Gongoll, Vernon F., G. G. Klinger, and W. J. Wiswesser, to The Electric Storage Battery Co. Respirator filter unit. 3,161,491, 12-15-64, Cl. 55-502.

Gongwer, Calvin A., to Aerojet-General Corp. Swimmer's propulsion device. 3,122,759, 3-3-64, Cl. 9-303.

Gongwer, Calvin A., to Aerojet-General Corp. Multiple disc valve. 3,133,557, 5-19-64, Cl. 137-512.1.

Gongwer, Calvin A., to Aerojet-General Corp. Space capsule. 3,137,290, 6-16-64, Cl. 128-1.

Gonla, August T., H. H. Fante, and M. J. Shepard, to Rockwell Standard Corp. Method of and apparatus for bending preformed formed wire strips. 3,141,481, 7-21-64, Cl. 140-71.

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Gonski, Joseph, to Goodman Mfg. Co. Continuous mining machine of the oscillating head type. 3,157,437, 11-17-64, Cl. 299-71.

Gonski, Joseph, and J. S. Newton, to Goodman Mfg. Co. Scroll type continuous mining machine. 3,121,558, 2-18-64, Cl. 262-19.

Gontcharuk, Joseph. Snow disposal apparatus. 3,150,660, 9-29-64, Cl. 126-343.5.

Gonzalez, Frank A. Rotary internal combustion engine. 3,155,081, 11-3-64, Cl. 123-15.

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Gooch, Beverley R. High-resolution tape-transport system for magnetic recorders. 3,135,476, 6-2-64, Cl. 242-55.12.

Gooch, Fred P., to Pennsalt Chemicals Corp. Centrifugal solids dryer. 3,136,721, 6-9-64, Cl. 210-376.

Gooch, Fred P., to Pennsalt Chemicals Corp. Pusher-type centrifuge. 3,136,722, 6-9-64, Cl. 210-376.

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Good, Raymond J. Bird cage means. 3,138,139, 6-23-64, Cl. 119-26.

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Gostomski, Frank T. Rear end loader. 3,127,999, 4-7-64,
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- Grantham, William G., to FMC Corp. Weightless tape and a method for the manufacture thereof. 3,118,806, 1-21-64, Cl. 161-143.
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- Graser, Fritz: See—
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- Freitag, Richard W., and Gratian. 3,134,083.
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- Gratzmuller, Jean L. Switch for large currents with one contact plastically deformable in proportion to current value. 3,153,131, 10-13-64, Cl. 200-170.
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- Gravel, Jean-Paul J., to General Electric Co. Self-balancing simulated bridge circuit for measuring impedance. 3,139,579, 6-30-64, Cl. 324-57.
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- Gray, John, to FMC Corp. Pressure control for water systems. 3,135,282, 6-2-64, Cl. 137-114.
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- Gray, John W., to General Precision, Inc. False lock-on elimination circuit. 3,148,368, 9-8-64, Cl. 343-8.
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- Green, James S. V. Anti-collision detection and warning system. 3,150,364, 9-22-64, Cl. 343-7.
- Green, Jerome, to Nalco Chemical Co. Quaternary imidazolium and imidazolium bisulfates. 3,121,091, 2-11-64, Cl. 260-309.
- Green, Jerome, to Nalco Chemical Co. Coagulating composition. 3,130,167, 4-21-64, Cl. 252-181.
- Green, John A., to Borg-Warner Corp. Plug-in type immersible pump. 3,143,971, 8-11-64, Cl. 103-87.
- Green, John H., to Winston Electronics Ltd. Blood pressure follower. 3,143,111, 8-4-64, Cl. 128-213.
- Green, John M., to Monsanto Co. Yarn waste spool. 3,162,993, 12-29-64, Cl. 57-34.
- Green, Joseph. Toy figure with body members secured by vacuum cups. 3,158,954, 12-1-64, Cl. 46-22.
- Green, Joseph, M. Fein, and N. Mayes, to Thiokol Chemical Corp. Organoboron compounds and method of preparation. 3,126,415, 3-24-64, Cl. 260-606.5.
- Green, Joseph, and G. Donovan, to Thiokol Chemical Corp. Solid propellant and process using vinyl decaborane compounds. 3,141,803, 7-21-64, Cl. 149-19.
- Green, Leland W., to Calmeac Mfg. Co. Force-balanced multiple position seals for valves and the like. 3,128,632, 4-14-64, Cl. 74-18.2.
- Green, Leon G., Jr. Tank cleaning device. 3,150,669, 9-29-64, Cl. 134-167.
- Green, Louis: See—
Goodman, Charles, and Green. 3,138,806.
- Green, Martin. Eating utensils. 3,121,951, 2-25-64, Cl. 30-149.
- Green, Martin. Toy apparatus. 3,130,517, 4-28-64, Cl. 46-51.
- Green, Matthias E. Shield for mouth-to-mouth resuscitation. 3,137,293, 6-16-64, Cl. 128-29.
- Green, Milton: See—
Blout, Elkan R., Green, and Rogers. 3,134,672.
Blout, Elkan R., Green, and Rogers. 3,134,764.
Blout, Elkan R., Green, Rogers, and Simon. 3,142,565.
- Green, Milton, to Polaroid Corp. Photographic products, processes and compositions employing azo dye developers. 3,141,772, 7-21-64, Cl. 96-29.
- Green, Milton, and H. G. Rogers, to Polaroid Corp. Photographic processes, compositions and products utilizing azo dye developers. 3,135,604, 6-2-64, Cl. 96-29.
- Green, Milton, and H. G. Rogers, to Polaroid Corp. Azo dye developers. 3,135,734, 6-2-64, Cl. 260-162.
- Green, Milton, and H. P. Husek, to Polaroid Corp. Process of diazotizing, coupling and hydrolyzing. 3,158,595, 11-24-64, Cl. 160-162.
- Green, Milton W., to AMP Inc. Load-selection circuit. 3,122,645, 2-25-64, Cl. 307-88.
- Green, Norman G., to British Telecommunications Research Ltd. Synchronous repeaters for telegraph systems. 3,138,666, 6-23-64, Cl. 178-70.

- Green, Paul R., and T. E. Druckenmiller, to Esso Research and Engineering Co. Piston operated fluid transfer apparatus. 3,126,913, 3-31-64, Cl. 137-615.
- Green, Peter D., and R. Bush-Nelson, to The Glaster Aircraft Co. Ltd. Beverage dispensing machines. 3,149,751, 9-22-64, Cl. 222-2.
- Green, Raymond E.: See—
Anstey, Nigel A., Green, Baird, Hales, and Graf. 3,153,771.
- Green, Richard J., and J. W. Berger, to Pullman Inc. Container for pulverant materials and apparatus for unloading same. 3,138,406, 6-23-64, Cl. 302-52.
- Green, Robert A., to Labbe-Green Corp. Convertible upright and tank type vacuum cleaner. 3,126,570, 3-31-64, Cl. 15-331.
- Green, Robert T. Game apparatus having a game board and strips spaced from and parallel to the game board thereby providing a three dimensional game board. 3,131,934, 5-5-64, Cl. 273-136.
- Green, Robert N., to General Motors Corp. Hydraulic accelerometer. 3,147,625, 9-8-64, Cl. 73-515.
- Green, Rowland P., to Stothert & Pitt, Ltd. Vibratory roller. 3,145,631, 8-25-64, Cl. 94-50.
- Green, Rowland P., to Stothert & Pitt, Ltd. Concrete mixing apparatus. 3,160,398, 12-8-64, Cl. 259-177.
- Green, Sally S. Readily portable luggage-type electric heating device. 3,140,387, 7-7-64, Cl. 219-348.
- Green, Sidney S., to Sperry Rand Corp. Modular electronic assemblies with cooling means. 3,124,720, 3-10-64, Cl. 317-100.
- Green, Sydney J., and D. S. Goodfellow, to Brown and Williamson Tobacco Corp. Apparatus for the treatment of paper. 3,133,379, 5-19-64, Cl. 51-8.
- Green, Thomas A.: See—
David, Gordon W., and Green. 3,132,670.
- Green, Thomas F., to Birfield Engineering Ltd. Method of positioning a damping insert into a tubular shaft. 3,145,464, 8-25-64, Cl. 29-464.
- Green, Virginia, and L. M. Johnston. Apparatus for making topographical models. 3,137,209, 6-16-64, Cl. 90-13.1.
- Green, Walter F. Fuel flow meter construction. 3,117,446, 1-14-64, Cl. 73-210.
- Green, William & Co. (Ecclesfield) Ltd.: See—
Warren, Ernest. 3,142,748.
- Green, Wilson P., and W. H. McKee, to United-Carr Fastener Corp. Hand tool. 3,137,062, 6-16-64, Cl. 29-206.
- Greenamyre, George P.: See—
Grayson, Richard D., and Greenamyre. 3,149,782.
- Greenan, Freeda R., to J. W. Fulton, Jr. Automatic feeding mechanism for livestock and poultry. 3,157,158, 11-17-64, Cl. 119-51.11.
- Greenawalt, John E., to Greenawalt Sintering Co., Inc. Suction fan. 3,123,284, 3-3-64, Cl. 230-128.
- Greenawalt, John E., deceased, by J. S. Greenawalt; executrix. In the recovery of chemicals from the incineration of waste black liquor, the method of eliminating noxious compounds entrained in the combustion gas. 3,163,468, 12-29-64, Cl. 23-45.
- Greenawalt, Joy S.: See—
Greenawalt, John E. 3,163,495.
- Greenawalt Sintering Co., Inc.: See—
Di Cesare, George E. 3,160,385.
- Greenawalt, John E. 3,123,284.
- Greenaway, Richard, to L. B. Weber. Audio visual apparatus. 3,138,061, 6-23-64, Cl. 88-28.
- Greenbaum, Sheldon B., and N. E. Boyer, to Hooker Chemical Corp. Novel phosphorus and chlorine containing tricyclic heterocycles. 3,146,253, 8-25-64, Cl. 260-461.
- Green Bay Foundry and Machine Works: See—
Steber, Joseph F. 3,155,131.
- Green Bay Packaging Inc.: See—
Baum, Richard E., and Daniels. 3,140,037.
- Greenbee Bros. & Co.: See—
Liquist, Wayne A. 3,136,347.
- Greenberg, Donald E., and K. H. Casson, to Barnes Drill Co. Honing element. 3,154,893, 11-3-64, Cl. 51-204.
- Greenberg, Elmer H., and W. B. Metal-plate-treating apparatus. 3,138,900, 6-30-64, Cl. 51-9.
- Greenberg, Harry, to Channel Master Corp. End fire planar dipole array with line transportation between dipoles and impedance increase towards feed. Re. 25,804, 6-16-64, Cl. 343-815.
- Greenberg, Harry, to Channel Master Corp. End fire planar array of V-shaped multi-band dipoles. 3,163,864, 12-29-64, Cl. 343-809.
- Greenberg, Leon S., to Raytheon Co. Graded energy gap semiconductor device. 3,132,057, 5-5-64, Cl. 148-33.
- Greenberg, Richard A., and H. H. Young, to Swift & Co. Method of manufacturing biological insecticide and product thereof. 3,150,062, 9-22-64, Cl. 195-96.
- Greenberg, Walter H.: See—
McCoy, John H., and Greenberg. 3,136,380.
- Greenberg, Walter H., to Riverside Plastics Corp. Sonar dome. 3,123,176, 3-3-64, Cl. 181-5.
- Greenberg, William B.: See—
Greenberg, Elmer H., and W. B. 3,138,900.
- Greenble, Barrie B. Erecting arrangement for portable building. 3,138,828, 6-30-64, Cl. 20-2.
- Greenble, Barrie B., to Portapavillon Structures, Ltd. Collapsible building structure with center post erecting structure. 3,160,165, 12-8-64, Cl. 135-4.

- Greenblatt, Bernard J., to International Business Machines Corp. Fluid controlled device. 3,148,691, 9-15-64, Cl. 137-81.5.
- Greenblatt, Bernard J., and W. J. Wheeler, to International Business Machines Corp. Sheet handling apparatus. 3,140,089, 7-7-64, Cl. 271-5.
- Greenburg, Joel D., H. Mescham, D. H. Nash, and L. Schenker, to Bell Telephone Laboratories, Inc. Frequency divider for video systems employing blocking oscillator utilizing reverse breakdown diode in feedback circuit. 3,144,581, 8-11-64, Cl. 315-27.
- Greenbury, Donald B. Boat storage rack. 3,136,425, 6-9-64, Cl. 211-1.
- Greencastle Equipment Mfg. Co.: See—
Forsythe, Henry E., Jr. 3,159,294.
- Greene, Blandford W.: See—
Cophthorne, Alton R., De Vita, Greene, Musial, Ioannilli, and Akerley. 3,142,278.
- Greene, Charles E., and C. H. Pulley, to Irving Air Chute Co., Inc. Twin hook type vehicle safety belt and guard boot therefor. 3,126,228, 3-24-64, Cl. 297-385.
- Greene, Franklin R., to Ideal Toy Corp. Method of manufacturing a shoe using a heat-sealing die. 3,149,355, 9-22-64, Cl. 12-142.
- Greene, George B. Jet engine. 3,157,029, 11-17-64, Cl. 80-39.77.
- Greene, Howard M., Jr. Parking meter apparatus. 3,150,754, 9-29-64, Cl. 194-72.
- Greene, Jack E., and J. J. Ingram, Jr., to International Business Machines Corp. Control apparatus. 3,141,152, 7-14-64, Cl. 340-172.5.
- Greene, John P., to Parachem Corp. Sheet material dispenser. 3,151,771, 10-6-64, Cl. 221-26.
- Greene, Joseph L. Jr.: See—
Hagemeyer, Hugh J. Jr., Greene, and Hequembourg. 3,160,621.
- Greene, Kenneth F.: See—
Chapman, Edward B., Greene, and Ronkese. 3,138,785.
- Greene, Kermit: See—
Pitt, Edgar W., and Greene. 3,144,131.
- Greene, Kermit, to St. Regis Paper Co. Containers for electrical bulbs and the like. 3,162,303, 12-22-64, Cl. 206-46.
- Greene, Lawrence E.: See—
Devol, James C., and Greene. 3,148,299.
- Greene, Nicholas H., Jr., and A. T. Flower. Spreaders for aerial conductors. 3,161,724, 12-15-64, Cl. 174-146.
- Greene, Norman D.: See—
Poppendiek, Heinz F., and Greene. 3,136,700.
- Greene, Norman M.: See—
Cripe, Robert W., and Greene. 3,144,836.
- Greene, Patrick J., Jr., O. L. Williams, and R. E. Yaeger, to Bell Telephone Laboratories, Inc. Automatic encoder test set for PCM encoders. 3,154,738, 10-27-64, Cl. 325-41.
- Greene, Paul B., to General Motors Corp. Stator winding machine means. 3,129,491, 4-21-64, Cl. 29-33.
- Greene, Paul B., to General Motors Corp. Stator winding machine means. 3,129,499, 4-21-64, Cl. 29-205.
- Greene, Paul B., to General Motors Corp. Coll forming means for stator winding machine. 3,129,900, 4-21-64, Cl. 242-1.1.
- Greene, Paul B., to General Motors Corp. Coll forming means for stator winding machine. 3,129,901, 4-21-64, Cl. 242-1.1.
- Greene, Richard F.: See—
Nelson, Alfred B., Greene, and McCabe. 3,128,384.
- Greene, Robert E., and E. T. Pleski, to E. I. du Pont de Nemours and Co. Process for degrading stereoregular polymers. 3,144,436, 8-11-64, Cl. 260-93.7.
- Greene, Robert R., to Rockwell-Standard Corp. Induction heating apparatus. 3,153,132, 10-13-64, Cl. 219-10.75.
- Greene, Samuel. Siding cutter. 3,134,285, 5-26-64, Cl. 83-467.
- Greene, Sanford. Fluid-pressure actuated switch. 3,133,997, 5-19-64, Cl. 200-83.
- Greene, Sanford I. Clampable precision gear. 3,139,296, 6-30-64, Cl. 287-52.
- Greene, Stubnitz, Corp.: See—
Stern, Lewis J. 3,142,073.
- Greene, William J., to Air Reduction Co., Inc. Regulated power supplies utilizing negative feedback control employing saturable reactors. 3,128,761, 3-3-64, Cl. 321-25.
- Greene, William J., to Air Reduction Co., Inc. Gas analysis by measuring negative ions resulting from captured electrons. 3,154,680, 10-27-64, Cl. 250-43.5.
- Greene, William J., and P. F. Belscher, to Air Reduction Co., Inc. Seam follower. 3,133,186, 5-12-64, Cl. 219-125.
- Greene, William L.: See—
Berliner, Henry A., and Greene. 3,146,508.
- Greene, Samuel. Ornamental protective covering for removable fasteners. 3,122,051, 2-25-64, Cl. 85-53.
- Greene, Stanley A., to North American Aviation, Inc. Propellant and rocket propulsion method. 3,117,416, 1-14-64, Cl. 60-35.4.
- Greenwald, Herbert, Jr., to United States of America, Air Force. Nickel alloy composition. 3,122,433, 2-25-64, Cl. 75-171.
- Greenfield, Anthony F., ½ to H. M. Gittleman. Tapping device for barrels, kegs or the like. 3,141,690, 7-21-64, Cl. 287-58.
- Greenfield, Charles. Removal of foreign components from fat-containing tissue. 3,134,795, 5-26-64, Cl. 260-428.
- Greenfield, Walter S., and T. Oates, to Lukens Steel Co. Non-welded base for stands or furniture. 3,153,524, 10-20-64, Cl. 248-158.
- Green Giant Co.: See—
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- Greenhouse, Marvin O., and Lawson. 3,162,459.
- Greengrass, Floyd: See—
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- Greenhalgh, Colin W., to Ilford Ltd. Colour couplers and their production and use in colour photography. 3,161,512, 12-15-64, Cl. 96-55.
- Greenhalgh, Colin W., to Imperial Chemical Industries Ltd. Color photographic materials and processes. 3,133,815, 5-19-64, Cl. 96-55.
- Greenhalgh, Colin W., and K. C. Stone, to Ilford Ltd. Colour photography. 3,127,269, 3-31-64, Cl. 96-55.
- Greenhalgh, Neville. Paper-cutting and like machines. 3,136,194, 6-9-64, Cl. 83-305.
- Greenhaus, Albert, to Berko Electric Mfg. Corp. Electric heater construction. 3,155,812, 11-3-64, Cl. 219-345.
- Greenhill, Ernest L.: See—
St. Clair, Theodore A., and Greenhill. 3,161,049.
- Greenhouse, Henry M., A. J. Dimick, and F. M. Myer, to Columbia Box Board Mills, Inc. Method of making striated paperboard. 3,138,518, 6-23-64, Cl. 162-109.
- Greening, Donald J., N. L. Peterson, and C. E. Smith, to Cutler-Hammer, Inc. Motor speed and acceleration control systems. 3,163,812, 12-29-64, Cl. 318-331.
- Greening, Paul K., and J. E. Bomboy. Spring clip for diapers and the like. 3,120,687, 2-11-64, Cl. 24-87.
- Greenleaf Enterprises, Inc.: See—
Greenleaf, John W., Jr. 3,134,735.
- Greenleaf, John W., Jr., to Greenleaf Enterprises, Inc. Open gravity filters. 3,134,735, 5-26-64, Cl. 210-264.
- Greenleaf, Walter J. Cutting tool. 3,154,974, 11-3-64, Cl. 77-58.
- Greenlee Bros. & Co.: See—
Herrstrum, Rudolph E. 3,128,654.
- Schrecongost, Richard K., and Jannenga. 3,159,375.
- Swanson, Edwin C. 3,139,221.
- Greenlee, William B., and V. A. Miller, to North American Aviation, Inc. Binocular star sensing system. 3,122,644, 2-25-64, Cl. 250-203.
- Greenler, Robert G., to Allis-Chalmers Mfg. Co. Apparatus using liquid electrodes for measuring the electric breakdown strength of thin films. 3,147,430, 9-1-64, Cl. 324-54.
- Greenlie, David G., and E. W. Merrill, to W. R. Grace & Co. Rotary intaglio printing of rubber gaskets and similar shapes. 3,158,669, 11-24-64, Cl. 264-153.
- Greenman, Leo. Automatic all color producing paint spray unit. 3,135,467, 6-2-64, Cl. 239-304.
- Greenman, Murry. Apparatus for connecting presemiflanged rungs to preapertured spaced ladder rails. 3,119,435, 1-28-64, Cl. 153-80.5.
- Greenman, Murry. Method for connecting presemiflanged rungs to preapertured spaced ladder rails. 3,140,540, 7-14-64, Cl. 29-512.
- Green Shade Enterprises, Inc.: See—
Sigler, Richard J., and Schnellbacher. 3,161,989.
- Greenshields, Bruce D. Method and apparatus for recording road appearance, geometry and surface characteristics. 3,151,235, 9-29-64, Cl. 235-92.
- Greenshields, William S. Golf club weighting attachment which straddles the club head. 3,133,785, 5-19-64, Cl. 273-171.
- Greenslade, Arthur T., Jr.: See—
Carkin, Clarence A., Greenslade, and Lambert. 3,130,914.
- Greenslate, Wesley M. Camp table and loading assisting panel for vehicles. 3,132,755, 5-12-64, Cl. 214-83.24.
- Greenspan, Frank P., and S. M. Linder, to FMC Corp. Improved epoxidation process with liquid aliphatic peroxy acids. 3,130,207, 4-21-64, Cl. 260-348.5.
- Greenspan, George, and C. P. Schaffner, to Schering Corp. 1-hydroxylated pregnene compounds. 3,136,793, 6-9-64, Cl. 260-397.47.
- Greenspan, Joseph, to Frigidmeats, Inc. Tenderizing machine. 3,149,554, 9-22-64, Cl. 99-254.
- Greenstein, Leon M.: See—
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- Bolomey, René A., Miller, and Greenstein. 3,123,490.
- Miller, Harold A., Schapiro, and Greenstein. 3,123,485.
- Greenstreet, Arthur W.: See—
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- Greentree, Geraldine H.: See—
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- Greentree, Herbert, ½ to G. H. Greentree. Tractor-trailer braking systems and operating mechanism. 3,135,358, 6-2-64, Cl. 188-3.
- Greenwald, Frank S., to Indiana General Corp. Variable magnetic strength permanent magnetic drum. 3,146,191, 8-25-64, Cl. 209-223.
- Greenwald, Harold A., to The Garrett Corp. Dynamic fluid seal. 3,122,375, 2-25-64, Cl. 277-88.
- Greenwald, Harry, ½ to L. Wolf and ½ to H. Silbergliat. Coin operated control system for bowling alleys. 3,148,345, 8-4-64, Cl. 273-54.
- Greenwald, Joseph H., to Ite Corp. Data processing apparatus. 3,134,314, 5-26-64, Cl. 95-14.

- Greenwood, Allan N., and T. H. Lee, to General Electric Co. Switching circuit utilizing two silicon controlled rectifiers with transient protection for the rectifiers. 3,133,209, 5-12-64, Cl. 307-88.5.
- Greenwood, Henry B., deceased (by S. H. Greenwood, executor), to Samuel M. Langston Co. Ductor roll lockout device. 3,120,803, 2-11-64, Cl. 101-351.
- Greenwood, Ivan A., Jr., to General Precision, Inc. Hybrid doppler navigator. 3,159,833, 12-1-64, Cl. 343-8.
- Greenwood, John, and E. A. Saxon-Napier, to Esso Research and Engineering Co. Lithium greases. 3,158,574, 11-24-64, Cl. 252-36.
- Greenwood, Lewis: See—
Robbins, William B., and Greenwood. 3,148,820.
- Greenwood, Marvin H., to Anderson, Greenwood & Co. Opposed corner radar reflector assembly. 3,138,798, 6-23-64, Cl. 343-178.
- Greenwood Mills: See—
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- Greenwood, Raymond R. Animal holding device. 3,137,273, 6-16-64, Cl. 119-103.
- Greenwood, Samuel H.: See—
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- Greer, Edward M., to Greer Hydraulics, Inc. Blind shell piston accumulator. 3,158,180, 11-24-64, Cl. 138-31.
- Greer, Everett A.: See—
Spraul, Joseph R., Peart, and Greer. 3,132,967.
- Greer, Frederick W., Jr., to J. W. Greer Co. Automatic temper controlling apparatus. 3,154,137, 10-27-64, Cl. 165-12.
- Greer, Henry R. Plumbing aid. 3,143,744, 8-11-64, Cl. 4-192.
- Greer Hydraulics, Inc.: See—
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- Greer, J. W. Co.: See—
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- Kinney, Lawrence W. 3,159,430.
- Greger, Dean F.: See—
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- Greger, Herbert H. and D. F. Electrically conductive ceramic tile. 3,121,065, 2-11-64, Cl. 252-519.
- Greger, Paul, and E. Doring, to Voigtlander A.G. Photographic camera with auxiliary electric light source having energizing circuit including exposure meter indicator. 3,124,048, 3-10-64, Cl. 95-10.
- Gregg, David F., Jr. Automobile service bar. 3,136,461, 6-9-64, Cl. 224-42.42.
- Gregg, Edward B.: See—
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- Gregg, Edward H.: See—
Carter, James B., and Gregg. 3,134,219.
- Gregg, Randolph T. and R. J. Pill dispensers. 3,154,217, 10-27-64, Cl. 221-256.
- Gregg, Robert J.: See—
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- Gregoire Engineering and Development Co.: See—
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- Gregoire, Resta S., to Gregoire Engineering and Development Co. Landing mat structure. 3,143,939, 8-11-64, Cl. 94-13.
- Gregor, Vaughn. Vibratory transfer chute. 3,146,915, 9-1-64, Cl. 222-161.
- Gregor, Wilhelm, to Licentia Patent-Verwaltungs-G.m.b.H. Fluid-machine with axial piston-cylinder arrangement. 3,123,014, 3-3-64, Cl. 103-162.
- Gregor, Wilhelm, to Licentia Patent-Verwaltungs-G.m.b.H. Axial piston machine. 3,149,577, 9-22-64, Cl. 103-162.
- Gregorian, Razmic S.: See—
Bush, Richard W., and Gregorian. 3,153,025.
- Kirk, Charles C., and Gregorian. 3,156,682.
- Gregorian, Razmic S., to W. R. Grace & Co. Polyethylene composition and process of crosslinking. 3,118,866, 1-21-64, Cl. 260-94.9.
- Gregorian, Razmic S., and P. J. Conway, to W. R. Grace & Co. Process of forming graft copolymers of polystyrene and polyvinyl chloride. 3,135,717, 6-2-64, Cl. 260-45.5.
- Gregorian, Razmic S., and R. A. Bafford, to W. R. Grace & Co. Post extrusion crosslinking of polyethylene. 3,140,279, 7-7-64, Cl. 260-94.9.
- Gregorich, Joseph T., to Clark Equipment Co. Transmission control. 3,135,367, 6-2-64, Cl. 192-4.
- Gregory, Beatrice M.: See—
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- Gregory Bob K.: See—
Schrader, Dale L., and Gregory. 3,135,473.
- Gregory, Bob K., to United Aircraft Corp. Process for adding small quantities of material. 3,120,248, 2-4-64, Cl. 141-1.
- Gregory, Charles A., Jr.: See—
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- Gregory Industries, Inc.: See—
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- Lucas, Raymond M. 3,120,938.
- Gregory, Jack W.: See—
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- Gregory, James: See—
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- Gregory, James W. Playground bouncer device. 3,117,780, 1-14-64, Cl. 272-56.
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- Gregory, John W.: See—
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- Gregory, Joseph J., to Arnel Industries, Inc. Valve protecting cap for aerosol-type containers. 3,162,329, 12-22-64, Cl. 222-182.
- Gregory, Ralph A., to International Business Machines Corp. Lattice-type character recognition system. 3,160,854, 12-8-64, Cl. 340-146.3.
- Gregory, Richard L., to National Research Development Corp. Recording device. 3,120,420, 2-4-64, Cl. 348-59.
- Gregowski, Joel H., to United States of America, Navy. Magnetometer supporting Gimbal system having segmented frame members with relatively high impedance bonding therebetween. 3,149,280, 9-15-64, Cl. 324-43.
- Greif Bros. Cooperage Corp.: See—
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- Greif, L. & Bro.: See—
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- Greif, Martin, and J. F. Weidenheimer, to American Cyanamid Co. Water-soluble coated edible organic acids. 3,131,068, 4-28-64, Cl. 99-139.
- Greig, Harold G., to Radio Corp. of America. Electrostatic printing process and apparatus. 3,117,884, 1-14-64, Cl. 117-17.5.
- Greig, James W., to Woodall Industries, Inc. Hollow plastic sun visor having deformed areas. 3,128,121, 4-7-64, Cl. 296-97.
- Greiling, David J., to Lrf-Alum, Inc. Sectional shutter. 3,120,883, 2-11-64, Cl. 189-63.
- Greiner, Alfred, and R. P. Holle, to General Electric Co. Method of manufacture of lamp filament supports. 3,116,992, 1-7-64, Cl. 65-54.
- Greiner, Charles J.: See—
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- Geer, Henry G., Greiner, and Zuehlisdorff. 3,116,921.
- Geer, Henry G., Greiner, and Zuehlisdorff. 3,136,104.
- Greiner, Charles J., A. S. Hublin, and R. G. Miller, to Kimberly-Clark Corp. Manufacture of cellulosic product. 3,131,436, 5-5-64, Cl. 19-144.5.
- Greiner Electronic A.G.: See—
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- Greiner, John R., to Lennox Industries, Inc. Strain relief clamp. 3,127,471, 3-31-64, Cl. 174-185.
- Greiner, Leonard, to Texaco Experiment Inc. Oxidizer comprising water, magnesium nitrate and methanol. 3,152,937, 10-13-64, Cl. 149-22.
- Greiner, Richard A., to Gisholt Machine Co. Square wave generator employing reverse-biased diodes at transistor input to produce symmetrical output. 3,128,395, 4-7-64, Cl. 307-38.5.
- Greiner, Rudolf, to Greiner Electronic A.G. Balance spring collet for fastening the inner end of a balance spring for a timepiece. 3,121,307, 2-18-64, Cl. 58-115.
- Greiner, Rudolf, to Greiner Electronic A.G. Stud for fastening the outer end of a hair spring for a timepiece. 3,122,880, 3-3-64, Cl. 58-115.
- Greiner, William A., Jr., to Armstrong Cork Co. Belt aligning device. 3,156,129, 11-10-64, Cl. 74-241.
- Greis, Karl, to Moeller & Neumann. Rotating shears for cutting continuously moving rolled material. 3,143,910, 8-11-64, Cl. 83-311.
- Greis, Karl, to Verwaltungsgesellschaft Moeller und Neumann offene Handelsgesellschaft. Sheet metal shears. 3,154,988, 11-3-64, Cl. 83-216.
- Greissman, Jacob. Simultaneous graphic recording, counting and timing device. 3,132,243, 5-5-64, Cl. 235-92.
- Grekel, Howard: See—
Craig, Forrest F., Jr., Grekel, and Hujsak. 3,126,961.
- Grekel, Howard: See—
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- Geffen, Theodore M., Grekel, and Hujsak. 3,152,638.
- Grekel, Howard, to Pan American Petroleum Corp. Use of water injection for promoting uniform initiation of underground combustion. 3,163,216, 12-29-64, Cl. 166-11.
- Grekel, Howard, G. C. Howard, and K. L. Hujsak, to Pan American Petroleum Corp. Well completion apparatus. 3,145,778, 8-25-64, Cl. 166-157.
- Greiner, Nelson P., and Associates: See—
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- Gremigni, Giuseppe: See—
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- Grenander, Pehr G. R. G.: See—
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- Grenell, Leland H., and H. M. Campbell, to Olin Mathieson Chemical Corp. Heat exchanger. 3,148,728, 9-15-64, Cl. 165-148.
- Grenier, Aime J., to Texas Instruments Inc. Thermal relays. 3,146,378, 8-25-64, Cl. 317-13.
- Grenoble, Herbert E., to General Electric Co. Fabrication of magnetic material. 3,147,157, 9-1-64, Cl. 148-111.
- Grenz, Marvin. Cattle gate. 3,155,073, 11-3-64, Cl. 119-98.

- Grepe, Frederick Y., to Canadian Controllers, Ltd. Braking circuit for A.C. hoist motor. 3,136,938, 6-9-64, Cl. 318-209.
- Gresch, John A.: See—
Roorda, Harry W., Gresch, and Beard. 3,155,082.
- Gresham, Paul J. Pilot-operated diaphragm valve. 3,120,372, 2-4-64, Cl. 251-43.
- Gresham, Ralph R. Magnetization of iron ores. 3,128,173, 4-7-64, Cl. 75-1.
- Gretler, Albert C., J. C. Wilcox, and E. W. Hopkins, to Armour and Co. Preparation of sausage. 3,149,980, 9-22-64, Cl. 99-109.
- Gretsch, Fred, Mfg. Co., The: See—
Webster, James D. 3,134,288.
Webster, James D. 3,162,083.
- Grettie, Donald P., and E. J. Strandine, to Swift & Co. Counter-current extraction of gelatin. 3,142,667, 7-28-64, Cl. 260-118.
- Greub, Werner. Occupant-controlled, obstruction-climbing wheel chair. 3,127,188, 3-31-64, Cl. 280-5.22.
- Gruet, Pierre, to North American Phillips Co., Inc. Device for fixing antenna rods. 3,119,633, 1-28-64, Cl. 287-54.
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- Greuner, Bernd R. L., to Gebr. Heller. Boring head. 3,138,043, 6-23-64, Cl. 77-58.
- Greutman, Weldon W., to International Telephone and Telegraph Corp. Balanced gain control circuit. 3,141,137, 7-14-64, Cl. 330-29.
- Greuzard, Charles E. Teaching and testing machine. 3,137,079, 6-16-64, Cl. 35-9.
- Greve, Wilhelm, and E. Meinecke, to Eastman International Co. G.m.b.H. Method and apparatus for ascertaining the level of a liquid in casings and drilled holes. 3,130,583, 4-28-64, Cl. 73-299.
- Grevich, John J., and C. W. Paulson, to Doughboy Industries, Inc. Plastic bag and packaging machine. 3,161,001, 12-15-64, Cl. 53-182.
- Grew, Ferdinand, H. Kaspers, K. Sasse, and R. Wegler, to Farbenfabriken Bayer Aktiengesellschaft. 2,3-dimercapto-quinolines as synergists for fungicidal agents. 3,146,161, 8-25-64, Cl. 187-33.
- Grew, Ferdinand: See—
Telle, Otto, and Grew. 3,127,311.
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Urbschat, Ewald, Grew, and Froberger. 3,150,151.
- Grey, Geoffrey H., to Dynamics Instrumentation Co. Automatic battery charger. 3,123,759, 3-3-64, Cl. 320-40.
- Grey, Mike W., and W. L. Ewert. Revolving file. 3,126,235, 2-24-64, Cl. 312-189.
- Grib, Boris F., to Philamon Laboratories, Inc. Tuning fork resonator with driving and feedback coils decoupling. 3,134,035, 5-19-64, Cl. 310-25.
- Grib, Boris F., to Philamon Laboratories, Inc. Tuning fork resonator mounted to damp externally originating mechanical disturbances. 3,152,289, 10-6-64, Cl. 310-25.
- Gribble, Joseph J., to Square D Co. Electromagnetic contactor with pilot light. 3,146,825, 8-25-64, Cl. 200-87.
- Gribble, Peter D., and F. G. D. Perry, to The Mullard Radio Valve Co. Ltd. Aerial geophysical survey apparatus having transmitter and receiver coils mounted on opposite wings of an aircraft so as to minimize gust effects. 3,127,557, 3-31-64, Cl. 324-4.
- Griesbach, Eugen, and W. Garn, to Schering AG. Water soluble salts of steroidal-21 acid sulfates and therapeutic compositions containing same. 3,162,044, 10-6-64, Cl. 167-58.
- Griesbach, Eugen: See—
Goetze, Wolfgang, and Griesbach. 3,141,787.
- Griesbach, Herbert, to Gutehoffnungshütte Sterkrade Aktien-Gesellschaft. Heat exchange systems. 3,117,623, 1-14-64, Cl. 165-163.
- Grieg, Donald D. Distance measuring device. 3,122,719, 2-25-64, Cl. 340-1.
- Griep, Alice K.: See—
Wegner, Claude. 3,117,569.
- Griep, Arthur H.: See—
Wegner, Claude. 3,117,569.
- Grier, David G., to Honeywell Inc. Measuring apparatus. 3,163,091, 12-29-64, Cl. 92-1.
- Grier, Jesse G., to Pennsalt Chemicals Corp. Process for brine manufacture. 3,130,016, 4-21-64, Cl. 23-312.
- Griese, Elmer W., Jr., to Ekco Containers, Inc. Re-closable hermetically sealed container. 3,151,765, 10-6-64, Cl. 220-53.
- Griese, Elmer W., Jr., to Ekco Containers, Inc. Hermetically sealed container. 3,151,800, 10-6-64, Cl. 229-3.5.
- Grieshaber, Emil W.: See—
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- Griesheimer, Richard E.: See—
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- Griesinger, Karl, to L. Schuler, AG. Flow deformation presses. 3,139,984, 7-7-64, Cl. 207-9.
- Griesinger, Karl, to L. Schuler, AG. Flow deformation press. 3,142,380, 7-28-64, Cl. 207-6.
- Griesinger, Karl, to L. Schuler, AG. Flow deformation press. 3,152,896, 10-13-64, Cl. 207-1.
- Griesinger, Walter H. Lip and jaw molding nipple. 3,130,725, 4-28-64, Cl. 128-232.
- Griesser A.G.: See—
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- Griesser, Fritz, to Griesser A.G. Roller-shutter. 3,123,131, 3-3-64, Cl. 160-232.
- Griesser, Fritz, to Griesser A.G. Venetian blind. 3,141,497, 7-21-64, Cl. 160-170.
- Griessl, Rudolf, to Markes & Co. Kommanditgesellschaft. Driving arrangements for toy devices and the like. 3,144,787, 8-18-64, Cl. 74-665.
- Grieve, George T. W., and H. W. R. Watson, to British Insulated Callender's Cables Ltd. Apparatus for controlling the tension in tapes. 3,142,453, 7-28-64, Cl. 242-75.47.
- Grieve, George T. W., and H. W. R. Watson, to British Insulated Callender's Cables Ltd. Apparatus for controlling the tension in tapes. 3,147,933, 9-8-64, Cl. 242-75.47.
- Griffel, Marc R., to Murray Iron Works Co. Elastic fluid turbine. 3,163,395, 12-29-64, Cl. 253-39.1.
- Griffen, Ralph R., to Holley Carburetor Co. Combination brake and accelerator control. 3,128,859, 4-14-64, Cl. 192-3.
- Griffes, Milton W., to The Euclid Electric & Mfg. Co. Magnet circuit control. 3,154,723, 10-27-64, Cl. 317-123.
- Griffin, Anthony L., and E. G. Chetwynd. Extensible coat hanger. 3,148,808, 9-15-64, Cl. 223-86.
- Griffin, Clifford J., to Fiscul Pty. Ltd. Means for recording oral proprioception. 3,129,510, 4-21-64, Cl. 32-19.
- Griffin, Donald E.: See—
Kimple, Harvey S., Griffin, and Moon. 3,132,011.
Moon, John J., and Griffin. 3,119,677.
- Griffin, Eugene P., and J. W. Halbrook, to United States of America, Army. Nadir point determining instrument. 3,127,682, 4-7-64, Cl. 33-46.
- Griffin, Gary W., to American Cyanamid Co. Photodimerization of tumaric acid derivatives. 3,139,395, 6-30-64, Cl. 204-158.
- Griffin, Henry W.: See—
Detloff, Clement A., Griffin, and Leslie. 3,141,517.
- Griffin, J. J.: See—
Young, Serenus H. A. 3,127,307.
- Griffin, Joan M., E. F. Bouchard, and K. S. Konigsbacher, to Chas. Pfizer & Co., Inc. Seasoning composition and method of enhancing the flavor of foods containing a glutamic acid salt. 3,156,569, 11-10-64, Cl. 99-140.
- Griffin, John J., to Foster Wheeler Corp. Fired heater for high control sensitivity service. 3,135,247, 6-2-64, Cl. 122-356.
- Griffin, John J., to Foster Wheeler Corp. Waste heat recovery apparatus with integral fired heater. 3,163,153, 12-29-64, Cl. 122-7.
- Griffin, Leonard H.: See—
Ballker, John J., Jr., Cofer, Griffin, and Sheets. 3,121,727.
- Griffin, Maurice V., to Carrier Corp. Compressor crankcase heating device. 3,133,429, 5-19-64, Cl. 62-469.
- Griffin and Orr: See—
Sherman, Donald W. 3,120,294.
- Griffin, Phil H., III, to Bass Bros. Enterprises, Inc. Mud cutter. 3,136,583, 6-9-64, Cl. 302-15.
- Griffin, Vernon F., to J. W. Speaker, Corp. Lamp housing. 3,156,416, 11-10-64, Cl. 240-8.3.
- Griffin Wellpoint Corp.: See—
Loughney, Richard W., Hoffman, and Bastone. 3,133,595.
- Griffin, William P., Jr.: See—
Votz, Sterling E., Griffin, and Stuart. 3,133,907.
- Griffs, Leroy, 1/2 to W. R. Stokes. Electric landing gear. 3,136,527, 6-9-64, Cl. 254-86.
- Griffith, Alan A., to Rolls-Royce Ltd. Power plant for driving fluid impeller means. 3,153,907, 10-27-64, Cl. 60-39.15.
- Griffith, Arvon M., to American Brake Shoe Co. Bearings. 3,151,015, 9-29-64, Cl. 161-158.
- Griffith, Bert P.: See—
Long, Paul J., Jr., Schmitz, and Griffith. 3,154,099.
- Griffith, Clifford J., to International Harvester Co. Tractor mounted loader. 3,156,367, 11-10-64, Cl. 214-140.
- Griffith, Donald L., to Custom Component Switches, Inc. Pressure switch. 3,133,171, 5-12-64, Cl. 200-83.
- Griffith, Edward J., to Monsanto Chemical Co. Method for increasing the productivity of a formation penetrated by a well. 3,131,146, 4-28-64, Cl. 252-8.55.
- Griffith, Edward J., to Monsanto Co. Ammonium nitrate composition. 3,148,946, 9-15-64, Cl. 23-103.
- Griffith, Edward J., and J. G. Stites, Jr., to Monsanto Co. Modified ammonium nitrate. 3,148,945, 9-15-64, Cl. 23-103.
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- Griffith, Faye L., and D. L. Bryant. Lid retainer. 3,140,795, 7-14-64, Cl. 220-55.7.
- Griffith, George L., G. A. Lyte, and F. B. Wells, to Trojan Powder Co. Detonatable cartridges having insensitive explosive cores. Re. 25,685, 11-17-64, Cl. 102-24.
- Griffith, George L., and F. B. Wells, to Trojan Powder Co. Sensitized oil-slurried explosives. 3,147,163, 9-1-64, Cl. 3,141,318, 7-21-64, Cl. 66-177.
- Griffith, Harry B., to Munsingwear, Inc. Undergarment. 3,141,318, 7-21-64, Cl. 66-177.
- Griffith, Jessie K. Apparatus for irrigation. 3,150,830, 9-29-64, Cl. 239-198.

- Griffith Laboratories, Inc., The: See—
Komarik, Stephan L. 3,147,123.
Sair, Louis. 3,122,442.
Sair, Louis, and Donahoe. 3,139,347.
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- Griffith, Lee F., to Katagote, Inc. Crawler attachment for a trail scooter. 3,158,220, 11-24-64, Cl. 180-9.24.
- Griffith, Richard, to Nopco Chemical Co. Process for the preparation of pantothenic acid salts. 3,150,175, 9-22-64, Cl. 280-334.
- Griffith, Robert K., to Riley Stoker Corp. Steam generating unit. 3,150,644, 9-29-64, Cl. 122-479.
- Griffith, Samuel G.: See—
Wotter, Robert C., Lander, and Griffith. 3,125,299.
- Griffith, Thomas B., 1/2 to J. O. Ellison, and 1/2 to E. Younglove. Balancing weights for wheels. 3,154,347, 10-27-64, Cl. 301-5.
- Griffith, Thomas W., to The Boeing Co. Closure and loading device. 3,147,942, 9-8-64, Cl. 244-137.
- Griffith, William J., Jr., 1/2 to C. J. Pruss. Floor sanding apparatus. 3,137,106, 6-16-64, Cl. 51-176.
- Griffiths, Edward G., to Camloc Fastener Corp. Modular seam fastener. 3,138,397, 6-23-64, Cl. 292-251.
- Griffiths, Edward G., to Camloc Fastener Corp. Push button fastener. 3,152,822, 10-13-64, Cl. 292-61.
- Griffiths, Edward G., and N. S. Johnson, to Camloc Fastener Corp. Under-center toggle latch. 3,127,205, 3-31-64, Cl. 292-113.
- Griffiths, Edward G., to Camloc Fastener Corp. Push button fastener. 3,156,493, 11-10-64, Cl. 292-164.
- Griffiths, Edward H., to Westinghouse Electric Corp. Rotatable spray apparatus. 3,144,209, 8-11-64, Cl. 239-15.
- Griffiths, Jack J., and R. S. Challender, to United Kingdom Atomic Energy Authority. Pressure vessels. 3,127,046, 3-31-64, Cl. 220-3.
- Griffiths, James D.: See—
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- Griffiths, Kenneth F., 1/2 to J. L. Kerby. Method and apparatus for counteracting washing of solid particles such as crystals. 3,117,031, 1-7-64, Cl. 134-25.
- Griffitts, James J., and J. C. Hobbs, to Dade Reagents, Inc. Method of forming a lancet. 3,143,793, 8-11-64, Cl. 29-417.
- Grifo, Richard A., R. L. Mayhew, A. Stefcik, and F. E. Woodward, to General Aniline & Film Corp. Heavy duty detergent compositions. 3,122,508, 2-25-64, Cl. 252-135.
- Grigas, Daniel P., and A. P. Martin. Apparatus for applying metallic siding. 3,131,513, 5-3-64, Cl. 50-218.
- Griggs, Glenn E., to Jennings Radio Mfg. Corp. Combined linear and rotary actuator means for switch. 3,145,278, 8-18-64, Cl. 200-102.
- Griggs, John J., and R. C. Scott. Motor driven oscillating bassinet support. 3,125,767, 3-24-64, Cl. 5-109.
- Griggs, John O., Jr., to Burroughs Corp. Regenerative pulse switching and current driver circuit. 3,151,545, 10-6-64, Cl. 101-93.
- Griggs, William H., A. H. Gray, and R. D. Zaffran, to Eastman Kodak Co. Photographic paper prepared from partially acylated cellulose fibers. 3,132,944, 5-12-64, Cl. 96-85.
- Grigsby, John D.: See—
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- Grillo, Joseph, to General Precision Inc. Control system for standby motor armature current in an uninterrupted power supply. 3,142,793, 7-28-64, Cl. 322-9.
- Grillot, Homer N.: See—
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- Grillot, Homer N., to International Harvester Co. Differential needle brake for balers. 3,122,991, 3-3-64, Cl. 100-19.
- Grillot, Homer N., to International Harvester Co. Auger shroud for hay baler. 3,132,459, 5-12-64, Cl. 56-341.
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- Grim, George B., to Caterpillar Tractor Co. Cooling means for internal combustion engines. 3,155,084, 11-3-64, Cl. 123-41.77.
- Grim, John V. and R. R., to Grim Mfg., Inc. Vehicle means for elongated and/or heavy objects. 3,123,380, 3-3-64, Cl. 280-404.
- Grim Mfg., Inc.: See—
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- Grimes, David D., to The Richards Corp. Film cleaning apparatus. 3,158,886, 12-1-64, Cl. 15-100.
- Grimes, Elmer W. Dining table. 3,152,599, 10-13-64, Cl. 134-115.
- Grimes, John J., Jr., and W. A. Lucht, to United States Steel Corp. Method for treatment of lubricated stranded wire structures. 3,154,440, 10-27-64, Cl. 148-16.
- Grimes, Merwyn E., to International Minerals & Chemical Corp. Material sampling apparatus. 3,128,629, 4-14-64, Cl. 73-423.
- Grimes Mfg. Co.: See—
Roper, John M. 3,150,456.
- Grimes, Patrick G., and J. G. Seibold, to Allis-Chalmers Mfg. Co. Nontoxic liquid fuel cell. 3,163,560, 12-29-64, Cl. 136-86.
- Grimes, Robert C. Machines for washing continuous textile lengths. 3,145,554, 8-25-64, Cl. 68-22.
- Grimes, Robert C. Machines for washing continuous textile lengths. 3,162,033, 12-22-64, Cl. 68-22.
- Grimes, William H., F. R. Scroop, L. P. Shapleigh, Jr., and S. E. Stone, to Whirlpool Corp. Apparatus for making clear ice bodies. 3,146,606, 9-1-64, Cl. 62-233.
- Grimley, Samuel S.: See—
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- Grimm, David W., to Kaynor Mfg. Co., Inc. Twelve-point nut. 3,140,636, 7-14-64, Cl. 85-32.
- Grimm, David W., and J. Rath, to Kaynar Mfg. Co., Inc. Floating anchor nut. 3,123,120, 3-3-64, Cl. 151-41.7.
- Grimm, David W., E. W. Bergere, and J. Rath, to Kaynar Mfg. Co., Inc. Self-staking fastener having alternate teeth and lands. 3,133,579, 5-19-64, Cl. 151-41.73.
- Grimm, Eric, to Associated Patentees, Inc. Slide feeds. 3,161,338, 12-15-64, Cl. 226-163.
- Grimm, George W., and P. J. McKeown, to Sperry Rand Corp., Ford Instrument Co. Division. System for determining vehicle parameters. 3,155,937, 11-3-64, Cl. 340-6.
- Grimm, Hugo: See—
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- Grimm, Jack K.: See—
Campbell, James F., and Grimm. 3,130,887.
- Grimm, James J., and H. E. Trumbull, to Xerox Corp. Xerographic developing apparatus. 3,122,454, 2-25-64, Cl. 118-637.
- Grimm, James J., and H. E. Trumbull, to Xerox Corp. Xerographic toner dispenser. 3,122,455, 2-25-64, Cl. 118-637.
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- Grimm, Otto, to Rohm & Haas G.m.b.H. Treatment of hides. 3,133,002, 5-12-64, Cl. 195-6.
- Grimm, Phillip R., to The Dole Valve Co. Continuous flow dispenser valve. 3,151,776, 10-6-64, Cl. 222-67.
- Grimm, Ralph J.: See—
Skoglund, Douglas M., Petersen, and Grimm. 3,121,357.
- Grimmels, Hermann G.: See—
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- Grimmett, Earl S., to United States of America, Atomic Energy Commission. Pulse column. 3,116,980, 1-7-64, Cl. 23-270.
- Grimmes, Knut, to SINTEF. Apparatus for calculation of depth, trim, bending moment and shearing stress in a loaded ship. 3,128,375, 4-7-64, Cl. 235-179.
- Grimshy, Frank N.: See—
Kurhajec, George A., and Grimshy. 3,140,312.
- Grimshaw, Charles, to General Electric Co. Thermally responsive switch. 3,123,697, 3-3-64, Cl. 200-137.
- Grimshaw, Norman, to Vitafoam Ltd. Cushion supporting members. 3,125,156, 3-17-64, Cl. 160-382.
- Grimslinger, Raymond C. Method of bending printed electrical circuit panels. 3,132,982, 5-12-64, Cl. 156-211.
- Grimslley, Arvid K., to American Can Co. Container cap. 3,129,839, 4-21-64, Cl. 220-42.
- Grindheim, Earl A., A. J. Stenstrom, and R. L. Walus, to R. L. Gannon. Body function sensors. 3,154,066, 10-27-64, Cl. 128-2.05.
- Grindle, Eugene L., to United Aircraft Corp. Hydraulic propeller system. 3,163,232, 12-29-64, Cl. 170-160.2.
- Grindrod, Paul E.: See—
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- Gring, John L., to Sinclair Research Inc. Process for preparing alumina-based catalysts. 3,152,091, 10-6-64, Cl. 252-464.
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- Gringras, Michel, to Compagnie de Saint-Gobain. Injection molding of fabric reinforced plastics. 3,137,750, 6-16-64, Cl. 264-257.
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- Grinnell, Russell, Jr. Compound uniflow steam engine. 3,137,211, 6-16-64, Cl. 91-163.
- Grinstead, Aline C.: See—
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- Grinstead, Henry L., deceased; A. C. Grinstead, legal heir of said H. L. Grinstead. Junction box connector. 3,148,899, 9-15-64, Cl. 285-159.
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- Grintz, Joseph J. Grocery bag loader. 3,161,003, 12-15-64, Cl. 53-255.
- Griensenberger, Ernst, to A. Charwat. Shot cartridge with tracer means. 3,142,254, 7-28-64, Cl. 102-42.

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- Grippl, Vincent, Jr., to B. Reichart. Sponge collector and counter. 3,146,944, 9-1-64, Cl. 235-98.
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- Grisman, Simon, to William Gluckin & Co., Inc. Girdles with interior bands. 3,144,870, 8-18-64, Cl. 128-527.
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- Grisley, Daniel W., and J. A. Stephens, to Monsanto Co. Method for preparing substituted thiolcarbamates. 3,151,119, 9-29-64, Cl. 260-293.4.
- Grist, Franklin J. Toy sounding space helmet. 3,150,461, 9-29-64, Cl. 40-232.
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- Griswold, David E., to D. G. Griswold. Modulating valve control systems. 3,136,333, 6-9-64, Cl. 137-489.
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- Griswold, Lee M. 3,140,720.
- Skidgel, John R. 3,149,784.
- Griswold, Hector W., to Johnson & Johnson. Fibrous materials and methods of making the same. 3,120,449, 2-4-64, Cl. 117-38.
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- Griswold, Lyman W., to United States of America, Navy. Omnidirectional electromagnetic flowmeter. 3,161,047, 12-15-64, Cl. 73-189.
- Griswold, Paul H., Jr., to W. S. Struve, to E. I. du Pont de Nemours and Co. Process for preparing dialkyl 2,5-diarylamino-3,6-dihydroterephthalates. 3,156,719, 11-10-64, Cl. 280-471.
- Griswold, Stanley M., to United Shoe Machinery Corp. Stiffener material for shoes and method of making. 3,149,022, 9-15-64, Cl. 162-108.
- Gritzner-Kayser Aktiengesellschaft: See—
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- Meier, Günther. 3,130,697.
- Groat, Marshall O., to Kingsberry Homes Corp. Vehicle for transporting components of prefabricated buildings and the like. 3,157,426, 11-17-64, Cl. 296-3.
- Grob, Benjamin. Grooving method and apparatus. 3,142,207, 7-28-64, Cl. 80-16.
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- Davis, John S., and Grob. 3,119,484.
- Groce, Douglas C., to International Business Machines Corp. Digitalization system for multi-track optical character sensing. 3,159,815, 12-1-64, Cl. 340-146.3.
- Grocerette Vending Machines, Inc.: See—
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- Groen, Frederick H., Jr., and H. F. Reiman, to Groen Mfg. Co. Ball valve. 3,148,695, 9-15-64, Cl. 137-315.
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- Groenendyke, Goethe M., to Socony Mobil Oil Co., Inc. Methods and apparatus for seismic section recording. 3,129,404, 4-14-64, Cl. 340-15.5.
- Groenewald, Henry D., Jr., to Deere & Co. Pitman drive for bale thrower. 3,139,999, 7-7-64, Cl. 214-83.3.
- Groenewegen, Johannes B., to Consolidated Electrodynamics Corp. Tape guidance system. 3,140,029, 7-7-64, Cl. 226-88.
- Groenewegen, Johannes B., to Consolidated Electrodynamics Corp. Tape tension sensing apparatus. 3,155,339, 11-3-64, Cl. 242-75.51.
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- Groetschel, Karl M. Hydraulic mine prop. 3,145,964, 8-25-64, Cl. 248-354.
- Groetschel, Karl M. Connection for lagging irons. 3,163,011, 12-29-64, Cl. 61-45.
- Groetzner, Kurt: See—
- Kolb, Erich, and Groetzner. 3,161,901.
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- Grogan, Dennis W. Combination scriber and punch. 3,152,396, 10-13-64, Cl. 30-164.9.
- Grogan, Edward M., to United States Steel Corp. Continuous switching for control systems. 3,127,103, 3-31-64, Cl. 236-1.
- Grogan, John E., and G. A. Parseghian, to Power Brushes, Inc. Cylindrical brush construction. 3,139,641, 7-7-64, Cl. 15-182.
- Grogan, Marvin E. Mail container. 3,131,841, 5-5-64, Cl. 224-51.
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- Gronberg, Anton B. Straw cutter. 3,139,918, 7-7-64, Cl. 146-121.
- Grondin, George F., to Collins Radio Co. Small gap data tape communication system. 3,131,377, 4-28-64, Cl. 340-172.5.
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- Grondin, George F., and R. L. McGhie, to Collins Radio Co. Variable bit-rate converter. 3,135,947, 6-2-64, Cl. 340-172.5.
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- Gronemeyer, Herbert W., to Armco Steel Corp. Machine for hot forming scale free metallic articles. 3,117,328, 1-14-64, Cl. 10-76.
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- Grönert, Paul, to Knotex Maschinenbau Gesellschaft mit beschränkter Haftung. Adjustable thread separating needle for warp tying-in machines. 3,120,691, 2-11-64, Cl. 28-49.
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- Grönlund, Sven O. Roof seaming machine. 3,120,828, 2-11-64, Cl. 113-55.
- Gronneberg, Roar. Card dealing apparatus including reciprocating pusher and cooperating rollers. 3,131,935, 5-5-64, Cl. 273-149.
- Gronkowski, Ray B., to Signal-Stat Corp. Portable flasher lamp with photo-cell controlled transistor oscillator circuit. 3,139,556, 6-30-64, Cl. 315-158.
- Groom, David W. Bare wire transmission arrangement. 3,128,331, 4-7-64, Cl. 174-43.
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- Groomer, Jesse J., G. J. and M. M. 3,156,943.
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- Groomer, Mildred M.: See—
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- Grootenboer, Wilhelm, to International Standard Electric Corp. Ferrite matrix storage. 3,144,640, 8-11-64, Cl. 340-174.
- Grootenboer, Wilhelm, to International Standard Electric Corp. Ferrite matrix storing devices with individual core reading and interference-pulse compensation. 3,161,860, 12-15-64, Cl. 340-174.

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- Grosin, James L., to United Aircraft Corp. Variable burning rate charge. 3,136,120, 6-9-64, Cl. 60-35.6.
- Grosjean, Arnold, to Paillard S.A. Device for adjusting the diaphragm of an objective. 3,135,185, 6-2-64, Cl. 95-64.
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- Gross, Frank J., to Allis-Chalmers Mfg. Co. Trash retainer for movable trash rake. 3,152,075, 10-6-64, Cl. 210-159.
- Gross, Franz, to Siemens & Halske Aktiengesellschaft. Delay line for travelling wave tubes. 3,157,814, 11-17-64, Cl. 315-3.5.
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- Gross, George E. Submersible device. 3,123,652, 3-3-64, Cl. 261-28.
- Gross, George E. Air source for a skin diver. 3,124,131, 3-10-64, Cl. 128-145.
- Gross, George E. Aerator beater. 3,133,976, 5-19-64, Cl. 261-32.
- Gross, George E., and W. F. Cramer, Jr. Impeller device. 3,123,651, 3-3-64, Cl. 261-24.
- Gross, Helmut, to G. M. Pfaff, AG. Loop taker adjusting mechanism for chainstitch sewing machines. 3,141,427, 7-21-64, Cl. 112-200.
- Gross, Herbert L. Water kite device. 3,140,555, 7-14-64, Cl. 43-43.13.
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- Gross, Jenoe. Plasma torch. 3,158,729, 11-24-64, Cl. 219-75.
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- Gross, Maurice J., to Barnes Drill Co. Workpiece locator. 3,122,866, 3-3-64, Cl. 51-227.
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- Grosser, Frederick, and M. R. Leibowitz, to General Aniline & Film Corp. Process for polymerizing N-vinyl lactams. 3,129,210, 4-14-64, Cl. 260-88.3.
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- Grossman, John S. Adjustable door strike. 3,126,221, 3-24-64, Cl. 292-341.15.
- Grossman, Lester A. Paper or like drinking cup. 3,152,743, 10-13-64, Cl. 229-1.5.
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- Grotewold, Hans W., to FMC Corp. Apparatus for processing fruit. 3,132,750, 5-12-64, Cl. 214-1.
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- Gumaellus, Robert L. B. Child height measuring and status recording device. 3,144,717, 8-18-64, Cl. 33-135.
- Gumbert, Victor D.: See—Beattie, Clifford G., and Gumbert. 3,149,439.
- Gumley, Robert H.: See—Avery, Robert C., Gumley, and Majlinger. 3,156,898.
- Gumpertz, Donald G. Automatic warehousing machine. 3,144,958, 8-18-64, Cl. 221-7.
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- Gumprecht, William H.: See—Starn, Roy E., Jr., and Gumprecht. 3,117,958.
- Gumuclo, Pelayo R., and H. G. Simpson, to Butler Mfg. Co. Rectangular bolted storage structure. 3,129,791, 4-21-64, Cl. 159-34.
- Gunnard, George S. Automatic window stop. 3,141,691, 7-21-64, Cl. 292-75.
- Gündel, Wolfgang, to Dehydtag Deutsche Hydrrierwerke G.m.b.H. Novel organic sulfonic acids having dithiocarbamic acid ester and thiourea or thiosemicarbazide groups and their salts and preparation thereof. 3,122,549, 2-25-64, Cl. 260-268.
- Gunderloy, Frank C., Jr., to Esso Research and Engineering Co. Preparation of solid boron compound. 3,159,451, 12-1-64, Cl. 23-14.
- Gunderson, Arthur M., to The Eastridge Co., Inc. Water sport vehicle. 3,120,011, 2-4-64, Cl. 9-310.
- Gunderson, Gilbert L. Adjustable power saw jig for cutting tapered table legs. 3,116,769, 1-7-64, Cl. 143-169.
- Gunderson, Ralph R. Foldable warning signal. 3,123,041, 3-3-64, Cl. 116-63.
- Gunderson, Ralph R. Locking assembly for cloth material. 3,136,015, 6-9-64, Cl. 24-182.
- Gunderson, Ralph R. Highway warning signal. 3,136,511, 6-9-64, Cl. 248-33.
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- Gustison, Robert A., F. W. Hurd, and R. M. Fowler, to Union Carbide Corp. Solvent extraction process for the recovery of vanadium from solutions. 3,131,993, 5-5-64, Cl. 23-18.
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- Gut, Stanley J., to General Precision Inc. Hydraulic actuator fitted with pivoted joint. 3,163,093, 12-29-64, Cl. 92-113.
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- Gutberlet, Robert C., to Cutler-Hammer, Inc. Mounting structure for electromagnetic contactor. 3,157,765, 11-17-64, Cl. 200-87.
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- Guth, Lauren W., to General Electric Co. Rack structure for dishwasher. 3,124,251, 8-10-64, Cl. 211-41.
- Guth, Ronald V. Counter-balanced light shield and reflector for extension lights. 3,154,253, 10-27-64, Cl. 240-54.
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- Guthrie, John C., S. Norman, and R. S. Mahomed, to Courtaulds Ltd. Method of making high bulk yarns. 3,120,095, 2-4-64, Cl. 57-157.
- Guthrie, John D., to United States of America. Agriculture. Process for treating cellulosic textiles with formaldehyde in vapor form. 3,154,373, 10-27-64, Cl. 8-116.4.
- Guthrie, Lyle D. Means for attachment of a pennant staff to automobiles. 3,127,868, 4-7-64, Cl. 116-173.
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- Gutjahr, Gert, and B. Sniegel. Psychological testing arrangement. 3,158,431, 11-24-64, Cl. 346-107.
- Gutkowski, Janusz, and N. Florescu, to New York Business Development Corp. Filter element. 3,152,988, 10-13-64, Cl. 210-486.
- Gutleber, Frank S., to International Telephone and Telegraph Corp. Space coded linear array antenna. 3,130,410, 4-21-64, Cl. 343-844.
- Gutman, Benjamin. Error correcting typewriter ribbon. 3,143,200, 8-4-64, Cl. 197-172.
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- Gutridge, Jack E., and W. R. Hummel, to Pullman Inc. Highway-railway transportation apparatus. 3,130,688, 4-28-64, Cl. 105-368.
- Gutridge, Jack E., and R. M. Sherrle, to Pullman Inc. Stand-chion operating mechanism. 3,142,466, 7-28-64, Cl. 248-119.
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- Gutridge, Jack E., and K. J. Austgen, to Pullman Inc. Container attachment device for railway cars. 3,159,111, 12-1-64, Cl. 105-366.
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- Gutschmidt, Alan, to Alamac Knitting Mills, Inc. Knitting machine. 3,122,905, 3-3-64, Cl. 66-50.
- Gutsell, Erwin S., Jr., and B. J. Magerlein, to The Upjohn Co. 21-hemi- α , β -dialkylsuccinates of corticoids. 3,163,664, 12-29-64, Cl. 280-397.45.
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- Guttak, Alvin, to Weston Chemical Corp. Filter. 3,120,849, 2-11-64, Cl. 131-10.
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- Guttak, Alvin, to Union Carbide Corp. Polyoxalkylated phenol-ketone and phenol-aldehyde phosphorus containing resins. 3,127,373, 3-31-64, Cl. 260-50.
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- Guterman, Robert P., to Sperry Rand Corp. Information storage device. 3,130,393, 4-21-64, Cl. 340-174.1.
- Gutman, Milton. Storm shield and screen unit for windows and doors. 3,139,923, 7-7-64, Cl. 160-39.
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- Parker, Leon B., and Guy. 3,134,235.
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- Guyer, Reynolds, to Waldorf Paper Products Co. Dispensing carton. 3,127,083, 3-31-64, Cl. 229-11.
- Guze, Oscar, Jr. Burglar proof safe locking bolt assembly. 3,158,017, 11-24-64, Cl. 70-119.
- Guzewicz, Edmund A., to Chandler Evans Corp. Anti-friction bearings and method of constructing same. 3,155,439, 11-24-64, Cl. 308-241.
- Guziak, Leonard F., to Koppers Co., Inc. Process for bonding a terpolymer film to a metal substrate. 3,127,296, 3-31-64, Cl. 156-332.
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- Guzzetta, Giuseppe, F. Sabbioni, and G. B. Gechele, to Montecatini Societa Generale per L'Industria Mineraria e Chimica. Depolymerization of styrene in the presence of free radical generating substances. 3,143,536, 8-4-64, Cl. 260-93.5.
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- Haas, Edgar, to Herman Schwabe, Inc. Mold assembly for molded shoe bottom. 3,141,195, 7-21-64, Cl. 18-17.
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- Haas, Howard C., to Polaroid Corp. Photographic diffusion transfer processes employing image receiving layers containing poly-4-vinylpyridine. 3,148,061, 9-8-64, Cl. 96-29.
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- Haase, Elmer A., to The Bendix Corp. Fuel supply system. 3,140,324, 7-7-64, Cl. 261-42.
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- Haase, Fritz. Separation of ammonium salt into NH₃ and acid. 3,117,837, 1-14-64, Cl. 23-150.
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- Habare, Serge, to International Harvester Co. Gauge wheel for two-way plow. 3,128,832, 4-14-64, Cl. 172-224.
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- Haber, Edgar. Cardiac monitoring device. 3,144,019, 8-11-64, Cl. 128-206.
- Haber, Michael. Combined checkbook and cashbook. 3,141,684, 7-21-64, Cl. 282-8.
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- Haberland, Fred C., and E. A. Moore, to Borg-Warner Corp. Pump drive assembly with fluid seal. 3,124,361, 3-10-64, Cl. 277-8.
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- Haberman, Charles E., to The Dow Chemical Co. Stabilized chloroethylene polymer compositions containing an emulsifier and a derivative of an alkylene diamine tetraacetic acid. 3,134,743, 5-26-64, Cl. 260-23.
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- Habeshaw, John, and W. J. Oldham, to British Hydrocarbon Chemical Ltd. Production of conjugated diolefins. 3,146,278, 8-25-64, Cl. 260-651.
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- Haebler, John A., to Shell Oil Co. Method and apparatus for hanging pipe in an underwater well. 3,163,217, 12-29-64, Cl. 166-14.
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- Hagan, Albert W., to Roy S. Sanford & Co. Carton. 3,126,143, 3-24-64, Cl. 229-37.
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- Hagedorn, Guenter E., W. H. Guiler, G. C. Weiffenbach, and L. J. Rueger, to United States of America. Navy. Ionospheric refraction correction system. 3,124,799, 3-10-64, Cl. 343-100.
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- Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Organoaluminum-transition metal halide-alkali metal fluoride for olefin polymerization. 3,125,558, 3-17-64, Cl. 260-93.7.
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- Hahn, Eberhard, to VEB Carl Zeiss Jena. Very fine beam electron gun. 3,141,993, 7-21-64, Cl. 315-31.
- Hahn, Emil H., to Lambert Brake Corp. Control valve unit. 3,120,244, 2-4-64, Cl. 137-512.5.
- Hahn, Erich, to VEB Kamera- und Kinowerke Dresden. Photographic camera. 3,151,535, 10-6-64, Cl. 95-10.
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- Hahn, Harold G.: See—
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- Hahn, Heinrich, to Chemische Fabrik Kalk G.m.b.H. Polyethylene composition having increased flame resistance. 3,133,038, 5-12-64, Cl. 260-41.
- Hahn, Heinrich, G. Mohr, and A. Van Schoor, to E. Merck Aktiengesellschaft. Process for the production of sulfur-containing alkali salts. 3,152,169, 10-6-64, Cl. 260-465.1.
- Hahn, Heinz W., to Motoren-werke Mannheim A.G. vorm Benz abt Stat Motorenbau. Gas engines. 3,149,454, 9-22-64, Cl. 60-13.
- Hahn, Henry, H. H. Hanink, R. D. Lloyd, J. Loprete, and H. Lorsch, to Curtiss-Wright Corp. Interlocked tape pressure vessel. 3,123,242, 3-3-64, Cl. 220-3.
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- Hahnle, Alwin, to General Dynamics Corp. Search receiver which corrects for motor overshoot by interchange of two offset band pass filters. 3,131,370, 4-28-64, Cl. 334-22.
- Hahlo, Charles. Collapsible snow scooter. 3,151,876, 10-6-64, Cl. 280-16.
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- Haigh, Leslie B., and T. W. Tuttle, to International Telephone and Telegraph Corp. Pulse code signalling systems. 3,149,203, 9-15-64, Cl. 178-26.
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- Hampton, John K., Jr., to Tower Investment Co. Caging system for small laboratory animals. 3,125,068, 3-17-64, Cl. 119-17.
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- Hanner, Lester H. Soap saver. 3,148,430, 9-15-64, Cl. 25-7.
- Hannes, George J.: See—
Fox, Herbert A., and Hannes. 3,141,811.
- Hannl, Eduard. Sheet metal working machines. 3,157,080, 11-17-64, Cl. 82-54.
- Hannig, Kurt: See—
Grassman, Wolfgang, and Hannig. 3,125,500.
- Hannon, Charles N.: See—
Hannon, Warren W., and C. N. 3,161,000.
- Hannon, Charles N., and W. W., said C. N. Hannon assor. to said W. W. Hannon. Apparatus for the packaging of newspapers or the like. 3,145,516, 8-25-64, Cl. 53-120.
- Hannon, Donald F., to Laminators, Inc. Laminating press. 3,143,454, 8-4-64, Cl. 156-499.
- Hannon Engineering Co.: See—
Hannon, Gilbert H. 3,140,218.
- Hannon, Francis B.: See—
Reid, Gilbert R., Mueller, and Hannon. 3,145,260.
- Hannon, F. R., & Sons, Inc.: See—
Hannon, Thomas W. 3,154,757.
- Hannon, Gilbert H. Chain operated working head for material converting machinery. 3,122,467, 2-25-64, Cl. 156-583.
- Hannon, Gilbert H., to Hannon Engineering Co. Repetitive operating forming head employing a pair of cooperating elements. 3,140,218, 7-7-64, Cl. 156-683.
- Hannon, Gilbert H. Bag package. 3,161,347, 12-15-64, Cl. 229-69.
- Hannon, Luke M., Jr.: See—
Chenoweth, James A., and Hannon. 3,134,595.
- Hannon, Thomas W., to F. R. Hannon & Sons, Inc. Transformer with secondary winding suspended within primary core. 3,154,757, 10-27-64, Cl. 336-175.
- Hannon, Warren W.: See—
Hannon, Charles N., and W. W. 3,145,516.
- Hannon, Warren W., and C. H.: said C. N. Hannon, assor. to W. W. Hannon. Apparatus for folding and securing newspapers or the like. 3,161,000, 12-15-64, Cl. 53-120.
- Hannula, Leslie A., to Burgess-Manning Co. Telephone enclosure panel. 3,148,246, 9-8-64, Cl. 179-6.3.
- Hanny, John F.: See—
Herbig, James A., and Hanny. 3,161,602.

- Hanny, Jost, to Sulzer Freres, Societe Anonyme. Apparatus for cooling gaseous media. 3,117,428, 1-14-64, Cl. 62-402.
- Hanny, Jost, and H. Sixsmith. Apparatus for cooling gaseous media. 3,133,425, 5-19-64, Cl. 62-172.
- Hanny, Jost, and A. Zürcher, to Sulzer Freres, S.A. Centering the piston of a piston compressor. 3,137,439, 6-18-64, Cl. 230-188.
- Hanover Tool Co., Inc.: See—
- Meckley, George E. 3,160,178.
- Hansa Bryggeri, A/S: See—
- Andersen, John M. 3,130,528.
- Hanschitz, Rudolph, and W. Taft, to Electrostar G.m.b.H., Firma. Floor polisher. 3,154,802, 11-3-64, Cl. 15-49.
- Hanscom, Frank E., and D. E. Hardy. Device for cleaning photographic film by rotating brushes and by the neutralization of static on the film. 3,128,492, 4-14-64, Cl. 15-308.
- Hanscom, Frank E., and G. E. Harrington. Static neutralizers. 3,162,787, 12-22-64, Cl. 317-2.
- Hanscom, Henry G., and R. H. Torque sensing mechanism. 3,142,177, 7-28-64, Cl. 73-139.
- Hanscom, Richard H.: See—
- Hanscom, Henry G., and R. H. 3,142,177.
- Hanse, Albert B., and L. N. Kint, to Pettibone Mulliken Corp. Lower screen grate apparatus for rock crusher. 3,150,837, 9-29-64, Cl. 241-189.
- Hanse, Albert B., and L. N. Kint, to Pettibone Mulliken Corp. Crusher apparatus and method of manufacture. 3,151,816, 10-6-64, Cl. 241-191.
- Hanseatische Motoren-Gesellschaft m.b.H.: See—
- Werner, Günther. 3,146,496.
- Hänsel, Otto, Jr., G.m.b.H.: See—
- Hänsel, Otto, Jr., and H. Lesch, to Otto Hänsel, Jr., G.m.b.H. Apparatus for transferring chocolate bars or the like from one conveying system to another. 3,143,232, 8-4-64, Cl. 214-310.
- Hänsel, Paul G., to Serro Corp. of America. Missile scoring system. 3,155,971, 11-3-64, Cl. 343-12.
- Hänsel, Paul G., F. G. Richter, and W. H. Paulstich, to Serro Corp. of America. Commutator. 3,129,392, 4-14-64, Cl. 333-7.
- Hänsel, Paul G., F. G. Richter, and W. H. Paulstich, to Serro Corp. of America. Broadband antenna array. 3,157,878, 11-17-64, Cl. 343-113.
- Hänsel, Raymond J.: See—
- Mojonnier, George W., and Hänsel. 3,155,125.
- Hänsel, William B., to Sun Oil Co. Adjustable back pressure valve. 3,152,616, 10-13-64, Cl. 138-40.
- Hanselman, Cloyd L., to Divco-Wayne Corp. Locking mechanism for casket table. 3,153,417, 11-3-64, Cl. 296-16.
- Hanselmann, Karl, to J. M. Volth, G.m.b.H. Adjusting mechanism for blades of fluid flow machines, especially torque converters. 3,146,826, 9-1-64, Cl. 74-96.
- Hansen, Albert B. A.: See—
- Hartmann, Louis M., and Hansen. 3,144,972.
- Hansen, Benjamin H. Staklip. 3,146,505, 9-1-64, Cl. 24-81.
- Hansen, Carl. Hook, line and sinker protector. 3,117,390, 1-14-64, Cl. 43-44.97.
- Hansen, Chris K. Plant husbandry packaging and method. 3,134,196, 5-26-64, Cl. 47-37.
- Hansen, Clifford M., to C. J. Fox. Dolly for handling doors and the like. 3,138,265, 6-23-64, Cl. 214-1.
- Hansen, Donald J.: See—
- Dess, Howard M., and Hansen. 3,129,151.
- Hansen, Elmer K. Hydraulic drive system. 3,163,008, 12-29-64, Cl. 60-97.
- Hansen, George. Folding comb. 3,140,719, 7-14-64, Cl. 132-151.
- Hansen, George E., A. Korzenowski, C. R. Stone, and R. H. Peterson, to Crane Co. Ball valve. 3,150,681, 9-29-64, Cl. 137-454.2.
- Hansen, George E., and A. Korzenowski, to Crane Co. Fabricated stuffing box with gland eye-bolt arrangement. 3,158,377, 11-24-64, Cl. 277-103.
- Hansen Glove Corp.: See—
- Frentzel, Herman C. 3,156,336.
- Hansen, Hans C. Automatic phonographs. 3,122,370, 2-25-64, Cl. 274-10.
- Hansen, Hans C. Plural part core with exposed wound-core portion. 3,129,399, 4-14-64, Cl. 336-212.
- Hansen, Hans C. Phonographs. 3,135,516, 6-2-64, Cl. 274-9.
- Hansen, Hans C. Record changing phonographs. 3,162,449, 12-22-64, Cl. 274-10.
- Hansen, Harold M., and R. S. Schultz, to American Can Co. Food dispensing package. 3,146,904, 9-1-64, Cl. 215-11.
- Hansen, Harold V., to Deere & Co. Wheel track implement. 3,158,115, 11-24-64, Cl. 111-52.
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- Pearson, Clarence E., and Hansen. 3,146,660.
- Hansen, Iver C., to Burroughs Corp. Diode head select matrix. 3,119,095, 1-21-64, Cl. 340-166.
- Hansen, James G. Folding auxiliary table. 3,162,149, 12-22-64, Cl. 108-79.
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- Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. Re. 25,583.
- Hansen, John A., to United Aircraft Corp. Deflection voltage supply for electron beam welders. 3,131,289, 4-28-64, Cl. 219-121.
- Hansen, John A., to McDowell-Wellman Engineering Co. Means for controlling the movement of pallets on a slitting machine. 3,141,544, 7-21-64, Cl. 198-203.
- Hansen, John A., to United Aircraft Corp. Means for focusing beams of charged particles. 3,148,265, 9-8-64, Cl. 219-117.
- Hansen, John A., C. A. Parske, and K. A. Riedel, to Kearney & Trecker Corp. Machine tool with a mechanical cutting tool changer. Re. 25,670, 10-27-64, Cl. 77-25.
- Hansen, John R., E. B. Blanc, and I. F. Wagner, to Union Carbide Corp. Magnetic support for displaying merchandise. 3,149,268, 9-15-64, Cl. 317-159.
- Hansen, Jorgen J. Electromagnetic and vacuum lifter. 3,159,418, 12-1-64, Cl. 294-64.
- Hansen, Kaare, and E. J. Knutsen. Device for winding film strips onto a processing spool. 3,132,818, 5-12-64, Cl. 242-55.
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- Willett, Robert R., and Hansen. 3,136,892.
- Hansen, Lester A.: See—
- Campbell, John E., Hansen, Lanyon, and Oglesby. 3,135,590.
- Hansen, Lewis C., and N. A. Zepell, to W. A. Sheaffer Pen Co. Clip assembly. 3,130,710, 4-28-64, Cl. 120-42.03.
- Hansen, Lyle A., to Straight Engineering Co. Vehicle dumping apparatus. 3,118,550, 1-21-64, Cl. 214-49.
- Hansen Mfg. Co., Inc.: See—
- Manson, Harry G. 3,136,590.
- Hansen, Norman N., to The Boeing Co. Punch card controlled switch mechanisms. 3,127,484, 3-31-64, Cl. 200-46.
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- McVicker, Robert F., Johnson, Hansen, and Travis. 3,150,474.
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- Hansen, Quinten A. Mechanical clutch of the compact and self-contained type. 3,127,969, 4-7-64, Cl. 192-93.
- Hansen, Robert V., to Allen-Bradley Co. Method and apparatus for producing permanent magnets. 3,136,033, 6-9-64, Cl. 29-155.6.
- Hansen, Robert V., to Controls Co. of America. Liquid dispensing system. 3,140,012, 7-7-64, Cl. 222-63.
- Hansen, Roy A., and W. J. Holt, Jr., to The Gyrex Corp. Vibratory rate gyroscope. 3,127,775, 4-7-64, Cl. 73-505.
- Hansen, Siegfried, and G. Fonda Bonardi, to Litton Systems, Inc. Fusion reactor. 3,155,592, 11-3-64, Cl. 176-1.
- Hansen, Waldemar S., to Stewart-Warner Corp. Interlocking flexible casing. 3,152,459, 10-13-64, Cl. 64-3.
- Hansen, Wilford N., to United States of America, Atomic Energy Commission. Purification process for uranium carbide. 3,125,497, 3-17-64, Cl. 204-1.5.
- Hansen, William F. Meat hook trolley. 3,128,720, 4-14-64, Cl. 104-89.
- Hansford, Reginald F., and E. Parker, to Decca Ltd. Apparatus for the transmission of radar data. 3,146,442, 8-25-64, Cl. 343-6.
- Hansford, Rowland C., to Union Oil Co. of California. Coprecipitated alumina-zirconium oxide sulfate-containing catalyst. 3,132,110, 5-5-64, Cl. 252-440.
- Hansford, Rowland C., to Union Oil Co. of California. Process for the manufacture of aluminum hydroxy-phosphate xerogels. 3,147,227, 9-1-64, Cl. 252-317.
- Hansford, Rowland C., to Union Oil Co. of California. Hydrocracking process and catalysts. 3,159,569, 12-1-64, Cl. 208-110.
- Hansford, Rowland C., to Union Oil Co. of California. Silica-zirconia-titania hydrocracking catalyst. 3,159,588, 12-1-64, Cl. 252-452.
- Hansford, Rowland C., and D. A. Young, to Union Oil Co. of California. Composite silica-zirconia hydrocracking catalyst and process. 3,120,483, 2-4-64, Cl. 208-110.
- Hansley, Virgil L., and S. Schott, to National Distillers and Chemical Corp. Method for melting metals. 3,119,685, 1-28-64, Cl. 75-65.
- Hanson, Alden W., to The Dow Chemical Co. Plastically deformable solids in treating subterranean formations. 3,159,217, 12-1-64, Cl. 166-36.
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- Hanson, Alfred H. Remote control device for accelerator pedal. 3,129,604, 4-21-64, Cl. 74-482.
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- Hanson, Bernard B., E. Stollgrosz, and J. E. Davis, to Whirlpool Corp. Broiler. 3,151,610, 10-6-64, Cl. 126-41.
- Hanson, Chris A. Emergency signal apparatus. 3,154,050, 10-27-64, Cl. 116-124.
- Hanson, Cleo E., and J. V. Tuschhoff, to A. E. Staley Mfg. Co. Starch composition. 3,150,993, 9-29-64, Cl. 106-210.
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- Hanson, Edward W. Multi-purpose storage unit. 3,123,220, 3-3-64, Cl. 211-88.
- Hanson, Eric P., P. H. Merdinyan, and G. H. Mulligan, to Grinnell Corp. Fire protection system. 3,133,330, 6-2-64, Cl. 160-2.

- Hanson, Frederick R., to The Upjohn Co. Process for preparing 6a-substituted-11,4,3-ketosteroids. 3,138,541, 6-23-64, Cl. 195-51.
- Hanson, George H., to United States of America, Atomic Energy Commission. Nuclear fission heating of oil bearing formations. 3,126,055, 3-24-64, Cl. 166-39.
- Hanson, Glenn M., R. D. Frans, G. A. Heian, and E. W. Price, to Allis-Chalmers Mfg. Co. Pellet of iron ore and flux, apparatus and method for making same. 3,163,519, 12-29-64, Cl. 75-3.
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- Shaw, Harry N., and Hanson. 3,145,733.
- Hanson, John H. A., to Dunlop Rubber Co. Ltd. Corrosion resistant disc brake. 3,162,271, 12-22-64, Cl. 188-73.
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- Hanson, Leroy C., to Ferro Corp. Resilient legged heating support. 3,134,887, 5-26-64, Cl. 219-458.
- Hanson, Leroy C., to Ferro Corp. Adjustable heating element supports. 3,162,755, 12-22-64, Cl. 219-526.
- Hanson, Lloyd A.: See—
- Pearlman, Harry, and Hanson. 3,158,468.
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- Hanson, Neil H. Portable electrical outlet and lighting assembly. 3,135,469, 6-2-64, Cl. 240-2.
- Hanson, Palmer H. Bow tie holder. 3,125,386, 3-17-64, Cl. 312-134.
- Hanson, Paul C., to Rohr Corp. Service station restrooms. 3,148,380, 9-15-64, Cl. 4-2.
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- Hanssen, Stan B. 3,161,244.
- Hanson, Theodore L., G. C. Bell, and C. W. Hunter, to The Vendo Co. Coffee vending machine having single cup brewing mechanism. 3,125,945, 3-24-64, Cl. 99-289.
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- Hanson, Walter J., to Pitney-Bowes, Inc. Combination letter-envelope. 3,126,148, 3-24-64, Cl. 229-92.1.
- Hanson, Walter J., to Pitney-Bowes, Inc. Method of handling a combination letter-envelope. 3,152,800, 10-13-64, Cl. 270-1.
- Hanson, Walter J., and C. O. Kishibay, to Pitney-Bowes, Inc. Pivoted carriage for traveling roller platens. 3,152,543, 10-13-64, Cl. 101-269.
- Hanson, William, Jr., to Joy Mfg. Co. Conveyor cover. 3,147,852, 9-8-64, Cl. 198-204.
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- Hanssen, Stan B., to Hanson Scale Co. Zeroing device for bathroom type scales. 3,161,244, 12-15-64, Cl. 177-173.
- Hansson, Ants, and E. J. Ripling, to Continental Can Co., Inc. Preparation of sheet stock having longitudinal internal weakening therein. 3,144,709, 8-18-64, Cl. 29-413.
- Hansson, Ants, and C. E. Maier, to Continental Can Co., Inc. Preparation of expandable laminate stock and billet therefor. 3,157,474, 11-17-64, Cl. 29-187.
- Hansson, Oscar B., K. E. Löfstedt, and H. T. N-G. Nedeby, to Bofors, Aktiebolaget. Tracer material for missiles. 3,135,201, 6-2-64, Cl. 102-37.7.
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- Hanus, Edward J., to Merck & Co., Inc. Multi-vitamin composition containing pantothenamide. 3,160,564, 12-8-64, Cl. 167-81.
- Hanus, Edward J., V. J. Rizzo, and H. R. Skeggs, to Merck & Co., Inc. Hydroxocobalamin/glutathione. 3,130,189, 4-21-64, Cl. 260-112.
- Hanus, Edward J., and P. A. Ouellette, to Merck & Co., Inc. Non-aqueous oleaginous aerosol foam therapy of bovine mastitis. 3,135,058, 6-2-64, Cl. 167-53.2.
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- Happel, John, and L. Kramer. Selective pyrolysis of methane to acetylene and hydrogen. 3,156,733, 11-10-64, Cl. 260-679.
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- Harban, Arthur A., to Phillips Petroleum Co. Metering heterogeneous mixtures. 3,131,708, 5-5-64, Cl. 137-15.
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Henderson, Courtland M., and Harris. 3,127,287.

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Thompson, Wallace M. 3,126,817.
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Harris, Guy H., P. I. Traylor, and B. C. Fischback, to The Dow Chemical Co. 3,5-dinitrobenzoylureas. 3,129,246, 4-14-64, Cl. 260-552.

Harris, Guy H., P. S. Ichloka, and B. C. Fischback, to The Dow Chemical Co. Dinitroaroyl-N-pyridyl amides. 3,152,136, 10-6-64, Cl. 260-295.

Harris, Harlan N. Drafting machine. 3,153,284, 10-20-64, Cl. 33-79.

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Harris, Jacob W., to Dresser Industries, Inc. Pump plunger. 3,146,725, 9-1-64, Cl. 103-225.

Harris, James A. Sprinkler control system. 3,127,108, 3-31-64, Cl. 239-65.

Harris, James E. Regulating valve system. 3,158,141, 11-24-64, Cl. 123-103.

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Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Diels-Alder adducts of acyclic polyfluoroperhaloketones and 1,3-dienes. 3,136,786, 6-9-64, Cl. 260-345.1.

Harris, John F., Jr., and D. I. McCane, to E. I. du Pont de Nemours and Co. Polymers of perfluoroalkoxy perfluoro-vinyl ethers. 3,132,123, 5-5-64, Cl. 260-87.

Harris, John F., Jr., and D. I. McCane, to E. I. du Pont de Nemours and Co. Copolymers of perfluoroalkoxy ethers. 3,159,609, 12-1-64, Cl. 260-87.5.

Harris, John J. Toilet flush valve and trip lever. 3,149,345, 9-22-64, Cl. 4-57.

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Harris, Lawrence A., to General Electric Co. Bipotential cathode. 3,119,041, 1-21-64, Cl. 313-293.

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Harris, Sidney, and A. P. Dempsey, said Dempsey assor. to said Harris. Bottle wrapping apparatus. 3,121,047, 2-18-64, Cl. 118-202.

Harris, Sigmund P., to United States of America, Atomic Energy Commission. Method for measuring the power level of a nuclear reactor. 3,147,379, 9-1-64, Cl. 250-83.1.

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Harris, Wilbur T., to The Harris Transducer Corp. Ring-shaped transducer. 3,142,035, 7-21-64, Cl. 340-10.

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Harris, William C.: See—

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Harris, William C., and P. L. Crowell, to S. C. Johnson & Sons. Valve actuating assembly for pressurized containers. 3,149,761, 9-22-64, Cl. 222-394.

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Harris, William M., D. Mackie, and W. F. Meredith, to Titanium Zirconium Co., Inc. Glass polish and process of polishing glass. 3,123,452, 3-3-64, Cl. 51-307.

Harris, William S. Jet engine process using hydrogen produced from metal hydrocarbon mixture and water. 3,149,468, 9-22-64, Cl. 60-35.4.

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Harrison, Edward W.: See—

Harle, Harold P., and Harrison. 3,151,472.

Harrison, George C., and C. F. Gaetke, to Minnesota Mining and Mfg. Co. Closed molds for casting gaskets on pipe ends. 3,154,816, 11-3-64, Cl. 18-30.

Harrison, Gordon R., and L. R. Hodges, Jr., to Sperry Rand Corp. Temperature compensated yttrium gadolinium iron garnets. 3,132,105, 5-5-64, Cl. 252-62.5.

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Harrison, Hugh T., to The Dow Chemical Co. Piperidine hexafluorophosphate and hexafluoroarsenate compounds. 3,122,532, 2-25-64, Cl. 260-271.

Harrison, Hugh T., to The Dow Chemical Co. Aniline hexafluoroarsenate compounds. 3,132,166, 5-5-64, Cl. 260-440.

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Harrison, James A.: See—

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Harrison, James B.: See—

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Harrison, James B., and O. L. Magell, to Wallace & Tiernan Inc. Peroxy derivatives of 2,5-dimethylhexane-2,5-dihydroperoxide. 3,117,166, 1-7-64, Cl. 260-610.

Harrison, James B., and O. L. Magell, to Wallace & Tiernan Inc. Method of preparing tertiary butyl peroxy esters. 3,138,627, 6-23-64, Cl. 260-453.

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Harrison, James M., to Crown Machine and Tool Co., Inc. Method of impregnating synthetic resin particles with lower aliphatic gas to render said particles foamable. 3,127,360, 3-31-64, Cl. 260-2.5.

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Harrison, James M., to Crown Machine & Tool Co. Container. 3,156,371, 11-10-64, Cl. 220-6.

Harrison, James M., and R. E. Smucker, to Crown Machine and Tool Co., Inc. Apparatus and method for making plastic containers. 3,125,780, 3-24-64, Cl. 18-5.

Harrison, James W.: See—

Steinbrecher, Lester, Dollman, Buczkowski, and Harrison. 3,129,148.

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Harrison, John E. R., to General Dynamics Corp. Phase locked oscillator. 3,132,310, 5-5-64, Cl. 331-19.

Harrison, John W.: See—

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Shaw, William T., Ford, and Harrison. 3,120,728.

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Harrison, John W., and R. D. Lowry, to W. R. Grace & Co. Shrinkable bands. 3,159,520, 12-1-64, Cl. 156-272.

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Harrison, Kenneth J., to The Limer Concrete Machinery Co. Ltd. Mixing machines. 3,160,400, 12-8-64, Cl. 259-178.

Harrison, Le Vert, Jr. Movable motor vehicle parking space protector. 3,134,619, 5-26-64, Cl. 293-9.

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Harrison, Thomas S., to Lehn & Fink Products Corp. Internal medicament applicator. 3,154,074, 10-27-64, Cl. 128-232.

Harrison, Thomas S., and C. A. Littler, to E. I. du Pont de Nemours and Co. Pesticidal dispersion and method for preparing the same. 3,157,486, 11-17-64, Cl. 71-2.4.

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Harrison, Walter G. and J., to Prospect Mfg. Co., Inc. Sortation means. 3,147,845, 9-8-64, Cl. 198-38.

Harrison, Walter G., L. A. Gary, and A. C. Audet, to Prospect Mfg. Co. Inc. Article and code transfer apparatus. 3,151,731, 10-6-64, Cl. 198-38.

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Harrison, Walter J., to Fisher Scientific Co. Automatic titrator. 3,157,471, 11-17-64, Cl. 23-253.

Harrison, Wayne T., and R. J. Carrigan, to Bigelow-Sanford, Inc. Axminster type loom. 3,157,206, 11-17-64, Cl. 139-7.

Harrison, Wayne T., and R. J. Carrigan, to Bigelow-Sanford, Inc. Process for making axminster type carpet. 3,160,176, 12-8-64, Cl. 139-7.

Harrison, William B., Jr.: See—

Harrison, William B., Sr., and W. B. Harrison, Jr. 3,157,450.

Harrison, William B., Sr., and W. B. Harrison, Jr., to Harrison, Brad, Co. Electric cable connector. 3,157,450, 11-17-64, Cl. 339-94.

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Harrop, Russell G.: See—

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Hart, John E., H. R. Jaquith, and W. J. Berk, to Taylor Instrument Companies. Cascade control system. 3,126,903, 3-31-64, Cl. 137-84.

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- Haubenestel, Kenneth C. Pulley, especially for V-belts. 3,132,529, 5-12-64, Cl. 74-230.17.
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- Haven, Ysbrand, and A. Kata, to North American Phillips Co., Inc. Method of treating quartz crystals for optical uses by electrolytic deuteration. 3,134,730, 5-26-64, Cl. 204-130.
- Havener, Leslie N., to Erico Products, Inc. Clip fastener. 3,154,276, 10-27-64, Cl. 248-73.
- Havens, Carl B.: See—
- Brookens, Ronald G., and Havens. 3,148,934.
- Havens, Rex C. Shielded wire stripper. 3,153,358, 10-20-64, Cl. 81-9.51.
- Haver & Boecker: See—
- Bahr, Wilhelm, Bruder, and Schwake. 3,138,217.
- Haver-Lockhart Laboratories: See—
- Carlson, Arthur, Jr., and Seiden. 3,150,662.

- Haverkamp, Bernhard, and H. H. Groos, to Schloeman Aktiengesellschaft. Electrically heated billet-containers for metal-extrusion presses. 3,161,756, 12-15-64, Cl. 219-422.
- Haverstick, Merral P.: See—
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- Haverstick, Merral P., to The Vendo Co., and 1/2 to Coin Acceptors, Inc. Cradle structure for coin handling equipment. 3,120,300, 2-4-64, Cl. 194-102.
- Haverstick, Merral P., to The Vendo Co., and 1/2 to Coin Acceptors, Inc. Coin selecting apparatus. 3,155,214, 11-3-64, Cl. 194-102.
- Haviland, Lyman J., to Hammond Organ Co. Interlocking control tablets for use in an organ. 3,136,869, 6-9-64, Cl. 200-5.
- Haviland, Robert P., to General Electric Co. Communication system employing means for adjusting the power between control and relay stations. 3,151,295, 9-29-64, Cl. 325-3.
- Haviland, Robert P., to General Electric Co. Space vehicle attitude control. 3,162,764, 12-22-64, Cl. 250-83.3.
- Havlas, Jiri: See—
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- Havlicek, Larry L. Self scoring quiz apparatus. 3,116,565, 1-7-64, Cl. 35-48.
- Havlik, Jaroslav J. Mechanical injection molding machine. 3,158,905, 12-1-64, Cl. 18-30.
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- Havn, Svend E., and M. R. Namodi, to General Electric Co. Vertical deflection arrangement. 3,118,084, 1-14-64, Cl. 315-18.
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- Haw, Sherwood G. Unitized hot top liner. 3,153,823, 10-27-64, Cl. 22-147.
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- Hawk, Dale W., to Allis-Chalmers Mfg. Co. Earth mover. 3,122,849, 3-3-64, Cl. 37-129.
- Hawk, Gary D., to Hallmark Cards, Inc. Dispensing carton for sheet paper. 3,159,323, 12-1-64, Cl. 225-49.
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- Hawk, Le Roy R., and V. E. Scribner, to United States of America, Atomic Energy Commission. Fluid metering device. 3,137,174, 6-16-64, Cl. 73-423.
- Hawk, Thore C. Welding torch. 3,129,319, 4-14-64, Cl. 210-75.
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- Hawkins, Gary F., and C. E. Osborne, to Eastman Kodak Co. Production of high grade manganese chloride from ores of manganese dioxide. 3,120,995, 2-11-64, Cl. 23-87.
- Hawkins, Havilah S. Pattern mechanism. 3,122,182, 2-25-64, Cl. 143-26.
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- Hawkins, Jerry D. Motion picture viewer. 3,143,920, 8-11-64, Cl. 88-24.
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- Hawley, Richard A. Intermittent feed apparatus for rail suspended racks. 3,122,243, 2-25-64, Cl. 214-18.
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- Hawn, Robert D., to Minneapolis-Honeywell Regulator Co. Indicators. 3,126,641, 3-31-64, Cl. 33-172.
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- Hawthorne, Herbert J., and P. P. Carey. Method and apparatus for rotary drilling with compressional waves. 3,142,345, 7-28-64, Cl. 175-57.
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- Hawthorne, Lowell H., to Revere Copper and Brass Inc. Welding guns. 3,125,670, 3-17-64, Cl. 219-125.
- Hawthorne, Marion F.: See—
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- Hawthorne, Quintin J., to Trans-Florida Aviation Inc. Airplane wing attachment and mounting therefor. 3,147,941, 9-8-64, Cl. 244-135.
- Hay, Allan S., to General Electric Co. Oxidation of p-xylene to terephthalic acid. 3,139,452, 6-30-64, Cl. 260-524.
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- Hay, Russell G., L. F. Meyer, and C. M. Selwitz, to Gulf Research & Development Co. Alkylation of benzene with propylene in the presence of a catalyst containing titanium tetrachloride, alkyl aluminum sesquichloride, and oxygen. 3,129,256, 4-14-64, Cl. 260-671.
- Hay, Russell G., L. F. Meyer, and C. M. Selwitz, to Gulf Research & Development Co. Benzene alkylation with a catalyst consisting essentially of either SbCl₅ or SnCl₄ and alkyl aluminum sesquichloride. 3,134,822, 5-26-64, Cl. 260-671.
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- Hayakawa, Yoshihiko: See—
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- Hayden, Robert L., E. G. Langlois, and D. C. Starkweather, to Western Electric Co., Inc. Wire stripping apparatus. 3,154,980, 11-3-64, Cl. 81-9.51.
- Hayden, William J. Hog restraining implement. 3,117,555, 1-14-64, Cl. 119-154.
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- Hayes, John C., to W. R. Grace & Co. Method of producing a non-caking fertilizer and the product thereof. 3,137,565, 6-16-64, Cl. 71-64.
- Hayes, John C., and E. J. Bieck, to Universal Oil Products Co. Process for removing iron from an inorganic aluminum salt solution. 3,148,024, 9-8-64, Cl. 23-82.
- Hayes, John E. Baby cradle undulating mechanism. 3,119,125, 1-28-64, Cl. 5-109.
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- Hayes & Stolz Industrial Mfg. Co., Inc.: See—
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- Hayes, Thomas. Animated clock. 3,148,500, 9-15-64, Cl. 58-126.
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- Hayes, William B., III, R. J. Kallal, and C. M. Sayre, Jr., to E. I. du Pont de Nemours and Co. Device for catalytic exhaust treatment with particle separation. 3,154,389, 10-27-64, Cl. 23-28.
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- Hayim, Joseph H. Apparatus for disseminating pulverulent material. 3,162,332, 12-22-64, Cl. 222-193.
- Hayman, David F., V. Petrov, and O. Stephenson, to The British Drug Houses Ltd. New 1-substituted-3-(p-vinylbenzenesulfonyl)ureas. 3,150,180, 9-22-64, Cl. 260-553.
- Hayman, Max, and E. G. Hellenga, to Pilot Distributing Co. Bumper attachment for ball coupling hitch. 3,135,530, 6-2-64, Cl. 280-490.
- Hayman, Max, and E. G. Hellenga, to said Hellenga and P. E. Elcks. Mobile lift crane and vehicle tow hoist. 3,145,857, 8-25-64, Cl. 214-86.
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- Hayner, Paul F., to Sanders Associates, Inc. Electro hydraulic servo valve. 3,126,031, 3-24-64, Cl. 137-625.64.
- Hayner, Paul F., D. Blittz, K. E. Mayo, and E. R. Bernier, to Sanders Associates, Inc. Tape recorder. 3,158,696, 11-24-64, Cl. 179-100.2.
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- Haynes, Harold E., to United States of America, Navy. Optical tracking system. 3,117,231, 1-7-64, Cl. 250-203.
- Haynes Industries, Inc.: See—
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- Haynes, James D., to The Darby Corp. Auto hold-down winch and track assembly. 3,120,375, 2-4-64, Cl. 254-150.
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- Haynes, Richard H. Portable self-priming floor drainer pump assembly. 3,135,220, 6-2-64, Cl. 103-218.
- Haynes, Richard H. Portable self-priming floor drainer pump assembly. 3,144,832, 8-18-64, Cl. 103-113.
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- Haynman, Alexandre, to International Resistance Co. Wire wound resistor. 3,134,087, 5-19-64, Cl. 338-332.
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- Haysler, Kenneth B., and M. L. Flower pot. 3,132,791, 5-12-64, Cl. 229-21.
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- Haysler, Kenneth B., and M. L. 3,132,791.
- Hayeslet, Lamar E. Picture frame. 3,129,524, 4-21-64, Cl. 40-152.1.
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- Chatt, Joseph, Hayter, and Hart. 3,133,943.
- Hayter, Stanley G., to Westinghouse Electric Corp. Recording instrument. 3,136,597, 6-9-64, Cl. 346-140.
- Hayward, Charles M., to Epsco, Inc. D.C. to A.C. converter with negative feedback stabilization. 3,127,576, 3-31-64, Cl. 331-113.
- Hayward, Charles M., to Epsco, Inc. Electronic apparatus for following peak or valley signal amplitude. 3,133,211, 5-12-64, Cl. 307-88.5.
- Hayward, Frank S., and A. S. McCann. Adjustable spur for horsemen. 3,157,013, 11-17-64, Cl. 54-83.
- Hayward, Henry M., to L. A. Humphrey. Machine for dividing plastic tubes filled with fluid into vendable containers. 3,154,901, 11-3-64, Cl. 53-373.
- Hayward, Richard E., Jr.: See—
- Osburn, Carl L., Jr., and Hayward. 3,159,345.
- Hayward, Roger, and W. B. Lewis. Pens. 3,116,720, 1-7-64, Cl. 120-109.
- Haywood, George L., to Norton Co. Flexible coated abrasives. 3,133,801, 5-19-64, Cl. 51-293.
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- Hazard, Frank M., Jr.: See—
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- Hazelett, Richard: See—
- Hazelett, Robert W. and R. 3,123,874.
- Hazelett, Robert W. and R. 3,123,873.
- Hazelett, Richard. Educational materials and methods. 3,126,647, 3-31-64, Cl. 35-35.
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- Heller, John P., to Socony Mobil Oil Co., Inc. Method for the separation of materials. 3,148,139, 9-8-64, Cl. 210-21.
- Heller, Kenneth G., to American Radiator & Standard Sanitary Corp. Two-directional proportional thrust-control valve. 3,121,440, 2-18-64, Cl. 137-85.
- Heller Laboratories, Inc.: See—
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- Heller, Laszlo, L. Forgo, and P. Erdos, to Licencia Talalmanyokot Ertekesito Vallalat. Means for adjusting the pressure of air-cooled condensation apparatus. 3,134,429, 5-26-64, Cl. 165-40.
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- Heller, Laszlo, L. Forgo, and A. Bakay, to Licencia Talalmanyokot Ertekesito Vallalat. Heavy-duty mixing condenser. 3,158,666, 11-24-64, Cl. 260-888.
- Heller, Milton, and S. Bernstein, to American Cyanamid Co. 17a, 21-substituted methylenedioxy pregnadienes. 3,139,427, 6-30-64, Cl. 260-239.55.
- Heller, Milton D.: See—
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- Heller, Oscar, to Bulova Watch Co., Inc. Electronic thermostat system. 3,136,877, 6-9-64, Cl. 219-499.
- Heller, Robert E.: See—
Seisted, Walter T., and Heller. 3,127,120.
- Heller, Walter E. & Co., Inc.: See—
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- Bonanno, Joseph L., and Crossman. 3,126,668.
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- Heller, Werner H.: See—
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- Heller, William C., Jr., to National Distillers and Chemical Corp. Art of extruding thermoplastic sheets. 3,121,915, 2-25-64, Cl. 18-15.
- Hellermann, Herbert, to International Business Machines Corp. Monitor-converter system. 3,153,142, 10-13-64, Cl. 235-154.
- Hellie, Fritz & Co. G.m.b.H.: See—
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- Helling, Raymond P.: See—
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- Hellinghuizer, Pieter H., to Orgahell N. V. (Naamloze Venootschap). Process for the preparation of N-(5-nitro-2-furfurylidene)-3-amino-2-oxazolidones. 3,141,878, 7-21-64, Cl. 260-240.
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- Hellmich, Guy S., to Samuel Pegg & Son Ltd. Hank dyeing machines. 3,159,992, 12-8-64, Cl. 68-206.
- Hellman, Karl H. S.: See—
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- Hellman, Werner F. Talking doll and the like. 3,162,950, 12-29-64, Cl. 46-232.
- Hellmann, Leon, and D. L. Temple, to Zero Mfg. Co. Glass peening machine and dust-collecting system. 3,138,845, 6-30-64, Cl. 29-90.
- Hellmig, Ehrhard, to Agfa Aktiengesellschaft. Tone correction of photographic image. 3,127,268, 3-31-64, Cl. 96-44.
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- Hellrich, Tobias. Electrically illuminated artificial Christmas tree. 3,118,617, 1-21-64, Cl. 240-10.
- Hellstrom, Douglas R., to Smith and Wesson, Inc. Revolver gate. 3,124,839, 3-17-64, Cl. 42-50.
- Hellstrom, Melbourne J., to Westinghouse Electric Corp. Transistor circuit. 3,129,354, 4-14-64, Cl. 315-27.
- Helm Accessories, Inc.: See—
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- Helm, Claude W., to Mid-States Tool & Mfg. Co. Tunnel machine. 3,134,580, 5-26-64, Cl. 262-7.
- Helm, Mark W., to The Hoover Co. Switch and handle control support. 3,159,726, 12-1-64, Cl. 200-52.
- Helmhold, Theodor. Methods for reducing fluid drag on bodies immersed in a fluid. 3,118,594, 1-21-64, Cl. 230-120.
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- Helmcke, Conrad: See—
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- Helmig, Bernd. Heat exchange of granular material in a gaseous medium. 3,135,588, 6-2-64, Cl. 34-57.
- Helmrich, Gunter, to Vereinigte Aluminium Werke. Apparatus for the shaping of tough granular substances. 3,130,469, 4-28-64, Cl. 25-41.
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- Helsel, Paul E.: See—
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- Helton, William J., to Foster Bros. Mfg. Co. Folding sofa bed structure. 3,150,384, 9-29-64, Cl. 5-13.
- Helzel, Carl J. Mobile batching plant. 3,154,202, 10-27-64, Cl. 214-17.
- Helzel, Robert E. Road form and incorporated load transfer unit. 3,144,700, 8-18-64, Cl. 25-118.
- Helzel, Robert E., Arnold and Alex Sherman, R. K. Brugler, and J. C. Bennett, to The Helzel Steel Form and Iron Co. Apparatus for automatically discharging and weighing pre-selected plural materials. 3,156,312, 11-10-64, Cl. 177-70.
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- Helwig, William J., and G. M. Rose, Jr., to Radio Corp. of America. Apparatus for processing a plurality of articles or materials. 3,123,957, 3-10-64, Cl. 53-86.
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- Hemfort, Heinz, Jr., to Westfalia Separator AG. Apparatus for achieving the foam-free delivery of liquid material from a centrifuge drum. 3,135,691, 6-2-64, Cl. 233-19.
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- Heming, Edward W., P. E. Renshaw, M. R. Dilling, and S. D. Heming, to Tally Register Corp. Automatic sequence controlled computer. 3,138,702, 6-23-64, Cl. 235-157.
- Hemingway, Elizabeth J., G. E. Lee, D. G. Orton, and W. R. Wragg, to May & Baker Ltd. 4-amino-2-(halophenylalkyl)-5-methylpyrimidines. 3,133,066, 5-12-64, Cl. 260-256.4.
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- Hemker, Herman W., to FMC Corp. Feed means for staple fiber cutter. 3,162,080, 12-22-64, Cl. 83-355.
- Hemmeter, George T. Wheel balancer. 3,152,483, 10-13-64, Cl. 73-484.
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- Hemminger, Paul W., to International Telephone and Telegraph Corp. Called-line tone-signaling system. 3,156,781, 11-10-64, Cl. 179-84.
- Hempel, Charles H., to Hercules & Chemical Co. Pigmented synthetic rubber coating. 3,134,688, 5-26-64, Cl. 117-161.
- Hempel, Herman P., to International Business Machines Corp. Non-destructive read-out. 3,126,529, 3-24-64, Cl. 340-174.
- Hempel, Roy A., to Tectron Electronics, Inc. Electronic counter circuit selectively responsive to input pulses for forward or reverse. 3,155,836, 11-3-64, Cl. 307-88.5.
- Hempel, William C.: See—
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- Hemperly, Lyle D., Jr., and R. G. Hoof, to The Bendix Corp. Rotary motor driven nonjamming linear actuator. 3,159,758, 12-1-64, Cl. 310-88.

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- Hendrickson, Doyle D.: See—
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- Hemstock, Russell A., to Esso Research and Engineering Co. Recovery of bitumen from tar sands utilizing an evacuation step. 3,139,397, 6-30-64, Cl. 208-11.
- Hemstreet, Edward G., to Lyon Inc. Spoke type wheel cover. 3,145,059, 8-18-64, Cl. 301-37.
- Hemwall, John B., to The Dow Chemical Co. Use of 6,6'-alkylidenebis (benzoxazines) for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,124,472, 3-10-64, Cl. 106-84.
- Hemwall, John B., to The Dow Chemical Co. Use of 8,8'-methylenebis(benzoxazines) for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,124,473, 3-10-64, Cl. 106-84.
- Hemwall, John B., to The Dow Chemical Co. Method for improving physical properties of clays and clay-containing soils and compositions resulting therefrom (3,3'-ABB). 3,126,290, 3-24-64, Cl. 106-84.
- Hemwall, John B., to The Dow Chemical Co. Use of thiolphenols for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,132,957, 5-12-64, Cl. 106-84.
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- Hemwall, John B., to The Dow Chemical Co. Method for imparting improved properties to clays and clay-containing materials by use of 2-aminophenols and compositions resulting therefrom. 3,148,995, 9-15-64, Cl. 106-72.
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- Henatch, Reynold. Call transmitting devices. 3,129,294, 4-14-64, Cl. 179-90.
- Henc, Edward V., to Design & Manufacture, Inc. Rotary die cutting apparatus and method. 3,119,312, 1-28-64, Cl. 93-58.2.
- Henchert, John, to Continental Can Co., Inc. Pouring nozzle with captive cap. 3,117,702, 1-14-64, Cl. 222-543.
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- Henchert, John, to Continental Can Co., Inc. Spray nozzle with tethered closure. 3,131,870, 5-5-64, Cl. 239-567.
- Henchert, John, to Continental Can Co., Inc. Closure plug means. 3,133,696, 5-19-64, Cl. 220-80.
- Henchert, John, to Continental Can Co., Inc. Ball attachment for can tops. 3,138,284, 6-23-64, Cl. 220-91.
- Henchert, John, to Continental Can Co., Inc. Pull tab tear strip combination for metal can end. 3,151,766, 10-6-64, Cl. 220-54.
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- Hencken, Harold G.: See—
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- Hendershot, William F.: See—
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- Henderson, Ashland S., and J. R. Riede, to Reserve Mining Co. Continuous automatic ore assay system. 3,139,578, 6-30-64, Cl. 324-34.
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- Henderson, Barnabas D. Segment safety device. 3,146,460, 9-1-64, Cl. 2-2.
- Henderson, Blon E.: See—
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- Henderson, Charles F., to United States of America, Agriculture. Dispenser for granular materials. 3,140,800, 7-14-64, Cl. 222-174.
- Henderson, Clifford W., to Radio Corp. of America. Method of making electrical conductors. 3,159,486, 12-1-64, Cl. 96-36.
- Henderson, Clyde D. O., Fraker, and G. J. Finck, to Dunham-Bush, Inc. Refrigeration system and evaporative cooling units. 3,137,145, 8-16-64, Cl. 62-183.
- Henderson, Courtland M., and D. M. Harris, to Monsanto Chemical Co. Thermoelectricity. 3,127,286, 3-31-64, Cl. 136-4.
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- Henderson, David C. Feed mechanism for granular materials. 3,128,921, 4-14-64, Cl. 222-238.
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- Henderson, Eulas W., to Phillips Petroleum Co. Process and apparatus for preparing oil feed. 3,122,419, 2-25-64, Cl. 23-209.4.
- Henderson, George R., to Columbia Broadcasting Systems, Inc. Memory plane. 3,142,047, 7-21-64, Cl. 340-174.
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- Henderson, Henry C., Jr. Rolling element on moving surface toy. 3,137,506, 6-16-64, Cl. 273-109.
- Henderson, Hilliard T. Tire pressure warning device. 3,157,851, 11-17-64, Cl. 338-37.
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- Henderson, Robert R., Jr. to Burroughs Corp. Method and means for manufacture of magnetic cores. 3,160,860, 12-8-64, Cl. 340-174.
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- Hendley, James A. Means for weaving a pre-formed slide fastener filament to a tape. 3,123,103, 3-3-64, Cl. 139-11.
- Hendley, James A., to Talon, Inc. Slide fastener stringer. 3,148,779, 8-11-64, Cl. 24-205.16.
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- Hendrick, Russell C., to Minneapolis-Honeywell Regulator Co. Control apparatus for a craft. 3,137,462, 6-16-64, Cl. 244-77.
- Hendricks, Ernst, to Kronprinz Aktiengesellschaft. Machine for profiling wheel rims. 3,161,222, 12-15-64, Cl. 153-13.
- Hendricks, George D., to The Gamewell Co. Traffic adjusted traffic control systems. 3,120,651, 2-4-64, Cl. 340-35.
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- Hendricks, John G., to Stowe-Woodward, Inc. Device for determining finger-hole positions in bowling balls. 3,156,050, 11-10-64, Cl. 33-174.
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- Hendrickson, Doyle D.: See—
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Friedell, Morley V. 3,163,308.
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- Small, Charles L. 3,129,016.
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- Hendrickson, Melvin C., and G. V. Morris, to Zenith Radio Corp. Communication receiver. 3,140,346, 7-7-64, Cl. 178-5.1.
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- Hendrickson, Ralph E.: See—
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- Hendrickson, Ralph G. Mailbox signalling apparatus. 3,144,986, 8-18-64, Cl. 232-35.
- Hendrickson, Robert T., to Hendrickson Mfg. Co. Single axle suspension. 3,120,952, 2-11-64, Cl. 267-21.
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- Hendrickson, Severin B., to Heywood-Wakefield Co. Theatre chair with spring biased seat. 3,148,916, 9-15-64, Cl. 297-338.
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- Hendrix, Charles E., P. C. Driver, and D. D. Stevenson, to United States of America, Navy. Control system for automatic soft landing of a rocket vehicle. 3,154,265, 10-27-64, Cl. 244-1.
- Hendrix, Dewey. Cushion buffing machine. 3,133,380, 5-19-64, Cl. 51-32.
- Hendrix, Hubert L. Span car. 3,163,124, 12-29-64, Cl. 104-135.
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- Hendrix, William L. Method of stringing cable. Re. 25,549, 4-7-64, Cl. 254-134.3.
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- Hendry, James M., to Union Carbide Corp. Electrolytic method of and bath for stripping coatings from bases. 3,151,049, 9-29-64, Cl. 204-146.
- Hendry, James W., to Borg-Warner Corp. Extruder screw with right angle discharge. 3,137,035, 6-16-64, Cl. 18-12.
- Henebry, William M., to United States of America, Navy. Pulse generating circuit having a high repetition rate utilizing avalanche transistor-coaxial line combination. 3,141,981, 7-21-64, Cl. 307-88.5.
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- Hengeveld, Frank W., and K. Taylor, to Diamond Alkali Co. Preparation of chromium oxychloride, CrOCl. 3,134,640, 6-26-64, Cl. 23-85.
- Hengstebeck, Robert J., and W. W. Sanders, to Standard Oil Co. Separation of aromatics using copper fluoride and hydrogen fluoride. 3,151,177, 9-29-64, Cl. 260-674.
- Hengstenberg, Kurt, to R. Hengstenberg. Bottle closure. 3,130,849, 4-28-64, Cl. 215-79.
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- Henne, Fred M. Thermodynamically balanced heat regala system. 3,130,908, 4-28-64, Cl. 236-49.
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- Hennessey, Russell J., to Waldorf Paper Products Co. Reclosable carton. 3,144,195, 8-11-64, Cl. 229-51.
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- Hennig, Eugene W., to General Electric Co. Direct-current amplifier. 3,145,346, 8-18-64, Cl. 330-9.
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- Henningsen, Etmar A., to Deere & Co. End gate closure mechanism for a material unloader. 3,163,336, 12-29-64, Cl. 224-505.
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- Henricot, Paul E. E. A. Liners for ball and tube mills. 3,125,302, 3-17-64, Cl. 241-183.
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- Henriksen, Ernst J. J. Fountain pen structures. 3,139,864, 7-7-64, Cl. 120-42.4.
- Henrikson, Bror W., and K. O. Schneider, to American Seating Co. Flush banded table top. 3,151,713, 10-6-64, Cl. 189-34.
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- Henschke, William O., and J. C. van Amsterdam, to R. E. Phelon Co., Inc. Connector for coil or the like. 3,141,923, 7-21-64, Cl. 174-59.
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- Hensel, Erich. Fitting for detachably connecting wooden parts of articles of furniture. 3,129,472, 4-21-64, Cl. 20-92.
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- Hensley, Reece V., to Pneumo Dynamics Corp. Solid propellant rocket thrust vectoring system. 3,142,153, 7-28-64, Cl. 60-35.55.
- Hensley, Robert K., Jr. Key and coin lock for cleaning depository. 3,121,486, 2-18-64, Cl. 194-54.
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- Herb, Raymond G., to Wisconsin Alumni Research Foundation. Apparatus for evaporating materials. 3,117,210, 1-7-64, Cl. 219-19.
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- Herbert, Harold W., to Sylvania Electric Products Inc. Electrode shield. 3,161,798, 12-15-64, Cl. 313-240.
- Herbert, James C., to Jones & Lamson Machine Co. Pivoting tracing tool. 3,128,657, 4-14-64, Cl. 82-14.
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- Herbkersman, Earle C., to The Pipe Machinery Co. Indexing mechanism. 3,141,356, 7-21-64, Cl. 74-822.
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- Herbold, Robert J.: See—
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- Herbst, Benjamin T. Tree shaker. 3,121,304, 2-18-64, Cl. 56-328.
- Herbst, Benjamin T. Self-propelled fruit catching apparatus. 3,145,521, 8-25-64, Cl. 56-329.
- Herbst, Clarence A., to Resinoid Engineering Corp. Hydraulic brake plunger and method of making same. 3,139,010, 6-30-64, Cl. 92-248.
- Herbst, John A. Hydraulic actuator shaft, bearing and seal. 3,140,902, 7-14-64, Cl. 308-36.1.
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- Herbstman, Sidney. Direct radiator high fidelity loudspeaker. 3,143,183, 8-4-64, Cl. 181-31.
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- Herco Products, Inc.: See—
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- Hercules, Christopher De J. Resilient cushion tire and wheel. 3,127,920, 4-7-64, Cl. 152-325.
- Hercules Gallon Products, Inc.: See—
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- Hercules Powder Co.: See—
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- Carter, Richard P., and Parkinson. 3,154,577.
- Chapman, Charles H. 3,130,118.
- Desmarais, Armand J. 3,151,996.
- Diveley, William R., and Pombo. 3,150,179.
- Dunn, Cecil G., Fuld, Kusmierek, Lim, and Wang. 3,120,472.
- Fritz, Fred A. 3,135,785.
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- Gloor, Walter E. 3,157,599.
- Godsey, James H. 3,152,027.
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- Jacobs, John K., and Norman. 3,154,385.
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- Hergonson, Robert W., to O. M. Edwards Co., Inc. Method for vehicle washing. 3,142,590, 7-28-64, Cl. 134-7.
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- Herider, Clarence E.: See—
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- Herman, Aaron. Advertising adjunct for automatic record playing machines. 3,147,346, 9-1-64, Cl. 179-100.1.
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- Herman, Emil A., to Western Machinery Corp. Plywood panel patching machine. 3,129,736, 4-21-64, Cl. 144-2.
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- Herman, Luther R., and H. T. Jones, to General Electric Co. Reactive transformers. 3,128,443, 4-7-64, Cl. 336-160.
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- Hermann, Eugen, to Ernst Letzt Optische Werke G.m.b.H. Photographic objective. 3,152,218, 10-6-64, Cl. 88-57.
- Hermanns, Erich H., E. von der Linde, and E. Weber, to Maschinenfabrik Foriep G.m.b.H. Tracer for copying three-dimensional surfaces. 3,163,089, 12-29-64, Cl. 90-62.
- Hermanns, Henry M., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,126,744, 3-31-64, Cl. 73-407.
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- Herndon, Lee R., Jr., to Pegasus Laboratories, Inc. Pattern tracer control servosystem. Re. 25,648, 9-29-64, Cl. 318-28.
- Herndon, Luther J., Jr., and J. B. Queen, to Halliburton Co. Well tools. 3,125,382, 3-17-64, Cl. 308-4.
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- Herold, Charles C. Device for coordinating the pivotal movement of a golfer's shoulders and hips. 3,138,388, 6-23-64, Cl. 273-183.
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- Herrick, Norman A., to Assembly Products, Inc. Electrical flaw detector apparatus having null plane positioned as well as electrically balanced coil arrangements. 3,156,862, 11-10-64, Cl. 324-34.
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- Herring, Liles G., to Phillips Petroleum Co. Rocket motor and solid propellant charge. 3,157,025, 11-17-64, Cl. 60-35.6.
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- Herrmann, John A., to I-T-E Circuit Breaker Co. Bus bar adapter for circuit breakers. 3,120,627, 2-4-64, Cl. 317-99.
- Herrmann, John F., to Graflex, Inc. Film advancing mechanism for photographic projectors. 3,145,892, 8-25-64, Cl. 226-76.
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- Hilsinger, Arthur R., Jr., to The Hilsinger Corp. Belt holder for spectacles. 3,148,812, 9-15-64, Cl. 224-5.
- Hilsinger Corp., The: See—
- Hilsinger, Arthur R., Jr. 3,148,812.
- Hilt, Eugene W., and E. G. Whalon, Jr., to Pepperell Mfg. Co. Apparatus for use in mixing and blending fibers. 3,141,199, 7-21-64, Cl. 19-145.5.
- Hilt, Norman: See—
- Stone, Llewellyn E., and Hilt. 3,136,391.
- Hilt, Rudolf. Sheet metal cover for existing window frame. 3,139,703, 7-7-64, Cl. 50-118.
- Hilt, Martin, to Anstalt für Montage-Technik. Stud driving tool. 3,129,429, 4-21-64, Cl. 1-44.5.
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- Bailey, Louis G., Brau, and Hilton. 3,154,424.
- Hilton, Frank E., to Package Containers Inc. Apparatus for attaching handles to paper bags. 3,147,673, 8-8-64, Cl. 93-8.
- Hilverink, John W.: See—
- Pittman, Clarence E., and Hilverink. 3,119,328.
- Himelbaugh, Rudolph, to Mechanical Industries Production Co. Automatic calibration apparatus for thermal controls. 3,141,322, 7-21-64, Cl. 73-1.
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- Harrington, Horral. 3,118,010.
- Himmelberger, Harold, and H. G. Cook, to United States of America, Navy. Material handling device. 3,120,939, 2-11-64, Cl. 248-119.
- Himmelmann, Wolfgang, H. Mader, and R. F. Posse, to Agfa Aktiengesellschaft. Process of producing photographic silver halide emulsions utilizing sulfonated polyphenylene oxide. 3,137,756, 6-16-64, Cl. 96-94.
- Himmelright, Russel M.: See—
- Giovannetti, Angelo, Jr., Himmelright, Meyer, and Nitta. 3,158,172.
- Hinago, Tadashi: See—
- Terao, Shinichiro, and Hinago. 3,160,669.
- Hinchcliff Hardwood Lumber Co.: See—
- Phillips, David B. 3,133,511.
- Hinchliffe, Oliver G., to Davy and United Engineering Co. Ltd. Apparatus for inspecting objects. 3,160,287, 12-8-64, Cl. 214-1.
- Hinckle, John E., to Apex Machine Mfg. Co., Inc. Candy sucker forming, wrapping and sealing machine and method. 3,132,607, 5-12-64, Cl. 107-4.
- Hinckley, Alfred A., to Metal Hydrides Inc. Method for preparing tertiary amine boranes. 3,127,448, 3-31-64, Cl. 260-583.
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- Hinde, James N., to International Telephone and Telegraph Corp. Method of making shell and fin tube condensers. 3,153,843, 10-27-64, Cl. 29-157.3.
- Hindenburg, Eugene D., to Ideal Industries, Inc. Precision stripper blades. 3,125,909, 3-24-64, Cl. 81-9.5.
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- Hinderer, Gottlob, to Price-Pfister Brass Mfg. Co. Aerator for faucets or the like. 3,138,332, 6-23-64, Cl. 239-427.
- Hinderer, Robert F., to Wireco, Inc. Rubber electric insulation. 3,135,715, 6-2-64, Cl. 260-41.5.
- Hindermann, Peter, H. P. Kolliker, J. Ammann, and A. Pugin, to J. R. Gely A.-G. Reactive triazine dyes. 3,149,100, 9-15-64, Cl. 260-153.
- Hindersinn, Raymond R.: See—
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- Hindin, Jesse, and E. I. 3,156,510.
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- Hindin, Herbert B., W. C. Macklem, A. C. Hirsch, and E. A. Stiegler, to United States Rubber Co. Tire shaping machine. 3,138,510, 6-23-64, Cl. 156-41.6.
- Hindin, Jesse, and E. I. to Portable Make-Up Vanity Corp. Portable vanity. 3,156,510, 11-10-64, Cl. 312-223.
- Hindman, Daniel T., to National Precision Corp. Dispensing head mounting assembly. 3,125,253, 3-17-64, Cl. 222-181.
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- Hine, Louis J., $\frac{1}{2}$ to Curtin-Hebert Co., Inc., and $\frac{1}{2}$ to Norton Co. Belt grinder. 3,136,096, 6-9-64, Cl. 312-142.
- Hine, Willard D. Deflector. 3,133,321, 5-19-64, Cl. 20-1.
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- Hiner, Ralph B. 3,146,613.
- Hiner, Millard M.: See—
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- Hiner, Ralph B., $\frac{1}{4}$ to K. L. Hiner and $\frac{1}{4}$ to M. M. Hiner. Highway flare signal device. 3,146,613, 9-1-64, Cl. 67-3.
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- Hines, Russell J. 3,162,911.
- Hines, Frank F., to Baldwin-Lima-Hamilton Corp. Electrical strain transducer. 3,151,308, 9-29-64, Cl. 338-5.
- Hines, John, to The New England Lock and Hardware Co. Pin-tumbler lock. 3,130,573, 4-29-64, Cl. 70-417.
- Hines, Lloyd Q., Sr. Rotary tilting implement. 3,125,166, 3-17-64, Cl. 172-120.
- Hines, Roderick L., to Ford Motor Co. Electrostatic coating. 3,117,029, 1-7-64, Cl. 118-621.
- Hines, Russell J., to The Hines Flash Co. Apparatus for making sand molds for castings. 3,162,911, 12-29-64, Cl. 22-101.
- Hines, Thomas F., to Brucor Co. Coin-actuated dispensing and controlling machine. 3,155,212, 11-3-64, Cl. 164-10.
- Hines, William G., and R. L. Addinall, to The Steel Co. of Canada, Ltd. Process for coating zinc and zinc-iron alloy surfaces. 3,127,288, 3-31-64, Cl. 148-6.16.
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- Hings, Donald P. Epoxy resin golf club head integrally cured with a shaft wrapping of glass fiber material. 3,140,094, 7-7-64, Cl. 273-80.3.
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- Hink, Ernst, and P. Holz, to Eberhard Bauer Elektromotoren-fabrik G.m.b.H. Brake especially for electric motors. 3,139,160, 6-30-64, Cl. 188-171.
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- Carroll, William N., and Hinkeln. 3,119,983.
- Hinkel, Lester H.: See—
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- Hinkle, Ewan M., to The Ryan Aeronautical Co. Blind, self-locking, floating anchor nut. 3,131,743, 5-5-64, Cl. 151-41.74.
- Hinkle, James O., S. A. Myslinski, and F. J. Schneider, to Western Electric Co., Inc. Apparatus for assembling components. 3,133,337, 5-19-64, Cl. 29-25.3.
- Hinkle, Muri: See—
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- Hinkle, Ronald, H. R. Pope, and L. R. Fugate, to Altorfer Machinery Co. Means for steering a tractor by varying the point of load application to a transverse tow bar supported by the tractor. 3,140,745, 7-14-64, Cl. 172-292.
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- Hinman, Allen T., to The Hypertension Research Foundation. Blood pressure measuring device. 3,126,885, 3-31-64, Cl. 128-205.
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- Hinsey, Robert S., to Universal American Corp. Mechanism control. 3,117,466, 1-14-64, Cl. 74-531.
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- Hintenberger, Karl J. Electrically heated vacuum furnace. 3,128,326, 4-7-64, Cl. 13-31.
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- Hinz, Werner, and H. Fritzsche, to International Standard Electric Corp. Arrangement for detecting the stoppage of a movable body. 3,130,894, 4-21-64, Cl. 340-259.
- Hinze, Otto, to Hico Corp. of America. Falsework girder. 3,162,280, 12-22-64, Cl. 189-37.
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- Hipp, William J., to Webster Electric Co. Spool type control valve with constant flow valve in spool. 3,136,328, 6-9-64, Cl. 137-117.
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- Histed, Howard. Sandblast machine with precision sand-feed, remotely started and stopped. 3,139,705, 7-7-64, Cl. 51-8.
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- Hitchings, George H., and G. B. Ellison, to Burroughs Wellcome & Co. (U.S.A.) Inc. Alkylthiopyrimidines and method. 3,135,573, 6-2-64, Cl. 260-262.
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- Hitchings, George H., G. B. Ellison, and S. Bieher, to Burroughs Wellcome & Co. (U.S.A.) Inc. 4-thio-2'-deoxyuridine. 3,163,639, 12-29-64, Cl. 260-211.5.
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- Hixon, Philip E., E. E. White, and M. B. Fleisher, to Rolcor Corp. Film carrying rack. 3,135,188, 6-2-64, Cl. 95-98.
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- Holland, Raymond L. Denture dispensers. 3,153,855, 10-27-64, Cl. 32-8.
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- Hollander, Milton B., and M. F. Camps-Campins, to American Machine & Foundry Co. Friction welding. 3,121,948, 2-25-64, Cl. 29-470.3.
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- Holley, George M., Jr., to Holley Carburetor Co. Pump. 3,153,381, 10-20-64, Cl. 103-44.
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- Hollingsworth, Donald H., Jr., A. S. Johnson, L. M. Litz, and R. W. Oliver, to Union Carbide Corp. Cerium monosulfide articles. 3,125,421, 3-17-64, Cl. 29-183.5.
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- Hollingsworth, R. Lee. Automobile traffic surveillance apparatus and speed measurement equipment. 3,120,992, 2-11-64, Cl. 346-107.
- Hollingsworth, R. Lee. Sectional sealed-off inflated linear tubing and extruding and sealing means for manufacturing purposes. 3,126,581, 3-31-64, Cl. 18-14.
- Hollingsworth, R. Lee. Video tape recording. 3,160,704, 12-8-64, Cl. 178-6.6.
- Hollis, Clinton R., to International Paper Co. Process and apparatus for making bag closures. 3,129,646, 4-21-64, Cl. 93-27.
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- Hollister, Solomon C., and F. J. Kavanagh. Athletic shoe. 3,127,687, 4-7-64, Cl. 36-2.5.
- Hollman, Peter I., to Robertshaw Controls Co. Gas valves. 3,146,794, 9-1-64, Cl. 137-625.15.
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- Hollows, Jack, to Unit Tool & Engineering Co. Ltd. Rotary printing machines. 3,135,194, 6-2-64, Cl. 101-38.
- Hollrock, Richard H., to Kaman Aircraft Corp. Aerial device with retarding rotor. 3,143,323, 8-4-64, Cl. 244-138.
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- Holmes, Gifford I., to American Air Filter Co., Inc. Sliding doors locking arrangement. 3,118,298, 1-21-64, Cl. 70-100.
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- Holoubek, George H., H. Harms, K. E. Glidden, and T. Smith, to Thatcher Glass Mfg. Co., Inc. Process for producing regenerated cellulose particles with encapsulated opacifying or colored bodies. 3,142,580, 7-28-64, Cl. 117-26.
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- Holowaty, Michael O., and A. M. Schwarz, to Inland Steel Co. Pelletizing of iron ore for sintering. 3,134,667, 5-26-64, Cl. 75-3.
- Holowaty, Michael O., and F. W. Luerksen, to Inland Steel Co. Iron ore reduction process. 3,148,973, 9-15-64, Cl. 75-41.
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- Holschlag, Jerry B., and I. H. Parsons, to Owens-Corning Fiberglass Corp. Method and apparatus for uniformly twisting filamentary material. 3,120,731, 2-11-64, Cl. 57-94.
- Holsing, Robert H., to The Timken Roller Bearing Co. Drill bit and fastening means. 3,148,741, 9-15-64, Cl. 175-413.
- Holsinger, Jerry L., and N. E. Hoag, to International Telephone and Telegraph Corp. Two gun storage tube utilizing pulse circuitry. 3,144,579, 8-11-64, Cl. 315-13.
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- Holstein, Alvin W., to Universal Match Corp. Vending machine. 3,125,244, 3-17-64, Cl. 221-90.
- Holstein, Alvin W., J. T. Schuller, and E. S. Marr, to Universal Match Corp. Coin handling apparatus. 3,121,485, 2-18-64, Cl. 194-2.
- Holstein, Alvin W., H. H. Pryor, and F. J. Melvin, to Universal Match Corp. Vending machine. 3,128,013, 4-7-64, Cl. 221-129.
- Holstein, Alvin W., R. N. Cox, and L. A. Ficken, to Universal Match Corp. Dispenser for a vending machine. 3,128,908, 4-14-64, Cl. 221-105.
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- Holstein, John H., to Schenley Distillers, Inc. Barrel turner. 3,160,254, 12-8-64, Cl. 193-43.
- Holsten, John R., and J. S. Tapp, to Monsanto Co. Method for incorporating colorants in molten polyamides using adiponitrile as dispersing agent. 3,160,600, 12-8-64, Cl. 260-37.
- Holsten, John R., W. A. H. Huffman, and J. Preston, to Monsanto Co. Bis-(aminopropoxyphenyl)alkanes and process for producing the same. 3,148,215, 9-8-64, Cl. 260-570.
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- Holt, Mitchell O. Mailbox signal device. 3,143,287, 8-4-64, Cl. 232-35.
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- Holtzman, Samuel J. Luggage case and valance therefor. 3,135,366, 6-2-64, Cl. 190-41.
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- ooker, Donald E., to Lion Mfg. Corp. Lamp bank and selectively shiftable contact means. 3,120,657, 2-4-64, Cl. 340-378.
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- Hooper, Irving R.: See—
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- Horigan, Walter L., Jr., to Westinghouse Electric Corp. Cladding ferrous-base alloys with titanium. 3,125,805, 3-24-64, Cl. 29-492.
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- Hornbostel, Lloyd, Jr., to Beloit Iron Works. Pulp centrifuge. 3,140,258, 7-7-64, Cl. 210-112.
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- Hornet, Jack E. Telescopic boat trailer. 3,140,003, 7-7-64, Cl. 214-505.
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- Hornet, Leopold, H. Hoffman, and W. Klink, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. 3,156,739, 11-10-64, Cl. 260-668.
- Hornay, James D. Compression and twisting exercise device having an internal compression spring with interlocking limiting means. 3,132,861, 5-12-64, Cl. 272-68.
- Hornbeck, Anthony J., and J. R. Louis, to Bailey Meter Co. Series filament circuit failure indicator. 3,141,994, 7-21-64, Cl. 315-96.
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- Horning, Wayne F., and R. W. Jones, to Inboard Marine, Inc. Air-cooled inboard engine. 3,144,858, 8-18-64, Cl. 123-41.31.
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- Houston, David. Duct perforator for a damper. 3,122,833, 3-3-64, Cl. 30-361.
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- Houston, Stanley M., Jr., to Do Co. Journal stop and adaptor therefor. 3,129,984, 4-21-64, Cl. 308-38.
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- Howard, Arthur C. and J. A., to Rotary Hoes Ltd. Reverse-drive safety device for a walk-type tractor or cultivator. 3,147,818, 9-8-64, Cl. 180-82.
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- Howard, Sheldon J., to Trico Products Corp. Windshield wiper system. 3,153,802, 10-27-64, Cl. 15-250.27.
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- Howard, Wayne R., to Clark Equipment Co. Hydrodynamic device with lock-up clutch. 3,126,079, 3-24-64, Cl. 192-3.2.
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- Hubbatt, James E., I. Silver, and R. B. Inman, to Shavarr of America, Inc. Rotary type shaver with suction disposal means. 3,128,549, 4-14-64, Cl. 30-41.5.
- Hubbell, Charles N.: See—
- Noye, Paul R., Devonshire, Parker, and Hubbell. 3,126,837.
- Hubbell, Harvey, to Harvey Hubbell Inc. Electrical connector having selective key means for different voltages. 3,120,985, 2-11-64, Cl. 339-31.
- Hubbell, Harvey, Inc.: See—
- Babey, George. 3,118,718.
- Carlson, Ernest R. 3,131,013.
- Degnan, Paul E., and Healy. 3,120,987.
- Healy, Joseph F. 3,121,600.
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- Hubbell, Harvey. 3,120,985.
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- Mackiewicz, Czeslaw. 3,137,407.
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- Hubbs, John C., to E. H. Laboratories, Inc. Electrometer amplifier. 3,140,449, 7-7-64, Cl. 330-100.
- Hubby, Laurence M.: See—
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- Hubby, Laurence M., to Texaco Inc. Periodic ratio computer. 3,134,539, 5-26-64, Cl. 235-61.
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- Hübel, Karl W., and E. H. Braye, to Union Carbide Corp. Process for the preparation of halogenated organic compounds. 3,125,594, 3-17-64, Cl. 260-448.2.
- Hübel, Karl W., and E. H. Braye, to Union Carbide Corp. Process for the preparation of heteroatom containing organic compounds. 3,149,101, 9-15-64, Cl. 260-239.
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- Huber, Charles F., to G. T. Adams. Reversible self-priming pump. 3,134,331, 5-26-64, Cl. 103-3.
- Huber, Charles L.: See—
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- Lehmann, Ernest H., and Huber. 3,153,785.
- Huber, Charles L., to Xerox Corp. Xerographic transfer apparatus. 3,132,050, 5-5-64, Cl. 118-637.
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- Huber, Ernst. Spraying unit. 3,161,460, 12-15-64, Cl. 8-142.
- Huber, Erwin J.: See—
- Bellis, Howard M., Huber, and Kolinsky. 3,141,169.
- Huber, Franz R., and H. Neubauer, to Rohde & Schwarz. Coupling between stationary launching means and movable surface wave guide means. 3,134,951, 5-26-64, Cl. 333-95.
- Huber, Frederick: See—
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- Huber, Georg L.: See—
- Druey, Jean, and Huber. 3,157,634.
- Huber, Harry, and D. Grauleau, to CSF-Compagnie Generale de Telegraphie Sans Fil. Energy converter. 3,139,542, 6-30-64, Cl. 310-4.
- Huber, J. M. Corp.: See—
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- Kimmel, Kenneth M. 3,133,593.
- Millman, Nathan, and Fretz. 3,130,063.
- Huber, Louis J., to General Mills, Inc. Meat product. 3,129,455, 4-21-64, Cl. 17-45.

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- Huber, Ludwig: *See*—
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- Huber, Ludwig. Heater. 3,150,656, 9-20-64, Cl. 126-110.
- Huber, Matthew W., to The New York Air Brake Co. Servo valve. 3,135,204, 6-2-64, Cl. 137-625.61.
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- Huber, Max: *See*—
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- Huber, Melvin M.: *See*—
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- Huber, Oscar: *See*—
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- Huber, Ronald P.: *See*—
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- Huber, William J., to Goodman Mfg. Co. Transportable flexible belt conveyor. 3,128,871, 4-14-64, Cl. 198-184.
- Huberman, Samuel: *See*—
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- Hubert, Clarence A., to International Harvester Co. Track idler adjuster. 3,156,505, 11-10-64, Cl. 305-30.
- Hubert, Donald: *See*—
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- Hubert, William H. Attachment for trail scooter. 3,157,913, 11-24-64, Cl. 180-924.
- Hubin, Anthony S.: *See*—
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- Hubin, Anthony S., to Kimberly-Clark Corp. Reciprocating press. 3,125,947, 3-24-64, Cl. 100-53.
- Hubinger Co., The: *See*—
Elizer, Lee H., Glasscock, and Seltz. 3,136,646.
- Hubl, Johann, and H. Conrad, to Pee-Wee Maschinen- und Apparatebau Werner Plagemann. Apparatus for feeding workpieces to a rolling machine. 3,147,649, 9-8-64, Cl. 80-43.
- Hubley Mfg. Co., The: *See*—
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- Hubner, Alvah G., to General Electric Co. Scale plate mounting means. 3,138,137, 6-23-64, Cl. 116-129.
- Hubner, Gerhard, to Wacker-Chemie G.m.b.H. Process for manufacturing zinc and cadmium acetate-activated carbon catalysts. 3,150,106, 9-22-64, Cl. 252-428.
- Hubner, Kurt, to Clevite Corp. Semiconductor device and method. 3,152,928, 10-13-64, Cl. 148-33.5.
- Huhol, Robert W.: *See*—
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- Huhol, Robert W., C. J. Bartleson, Jr., and M. C. Goddard, to Eastman Kodak Co. Method and apparatus for making color prints. 3,152,897, 10-13-64, Cl. 96-23.
- Huhrich, Christoph, to Polysius G.m.b.H. Blower. 3,121,529, 2-18-64, Cl. 230-141.
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- Huck, Alfred J., to Knapp-Monarch Co. Oven toaster. 3,154,004, 10-27-64, Cl. 99-390.
- Huck, Emil, Jr. Container opener. 3,132,421, 5-12-64, Cl. 30-10.
- Huck Manufacturing Co.: *See*—
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- Baugh, Charles W., and Wehlann. 3,122,948.
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- Orloff, John F. 3,126,561.
- Reynolds, Perry J. 3,136,204.
- Van Hecke, George J. 3,116,848.
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- Wenson, Raymond J. 3,122,050.
- Huck, William F. Sheet conveying device. 3,116,924, 1-7-64, Cl. 271-68.
- Huck, William F. Transverse web control devices. 3,147,898, 9-8-64, Cl. 226-17.
- Huckins, Harold A., Jr., to Halcon International, Inc. Process for the production of ethylene oxide and nitrogen. 3,140,153, 7-7-64, Cl. 23-220.
- Huckleberry, Charles R., to American Radiator & Standard Sanitary Corp. Mounting for an air conditioner. 3,143,168, 8-4-64, Cl. 165-67.
- Huckstadt, Robert F.: *See*—
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- Hudak, Edward G., to The Coe Mfg. Co. Method and apparatus for handling material. 3,120,312, 2-4-64, Cl. 214-6.
- Huddleston, Richard H., Jr., to Halliburton Co. Electromagnetic well logging system including phase sensitive synchronous detector and modulator means. Re. 25,557, 4-21-64, Cl. 324-1.
- Huddleston, Robert L.: *See*—
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- Huddleston, William P. Collapsible or extensible table. 3,123,022, 2-3-64, Cl. 108-129.
- Hudgens, John D., to A. Thompson, Jr. Closure assembly for the counterweight casings of a variable pitch aircraft propeller. 3,146,834, 9-1-64, Cl. 170-160.23.
- Hudgin, Donald E.: *See*—
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- Hudgins, Charles M., Jr.: *See*—
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- McGlasson, Robert L., Greathouse, Landers, and Hudgins. 3,132,694.
- Hudgins, Charles M., Jr., R. L. McGlasson, and W. D. Greathouse, to Continental Oil Co. Methods of and apparatus for fracturing. 3,139,930, 7-7-64, Cl. 166-36.
- Hudis, Michael I.: *See*—
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- Hudis, Michael I., to Chain Belt Co. Road finishing float apparatus. 3,137,219, 6-16-64, Cl. 94-45.
- Hudnall, Charles P., Jr., and J. B. Long, to Marmon-Herrington Co., Inc. Face drill. 3,124,204, 3-10-64, Cl. 173-145.
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- Phillips, Clivy R. 3,160,066.
- Hudson, Frederick W., to Xerox Corp. Xerographic fixing apparatus. 3,158,503, 11-24-64, Cl. 118-637.
- Hudson, H. D., Mfg. Co.: *See*—
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- Schommer, Jule P. 3,124,237.
- Hudson, Holland R., A. C. Nolte, and J. N. Colebrook, to The Lodge & Shipley Co. Modulated feed for engine lathes. 3,160,040, 12-8-64, Cl. 82-21.
- Hudson, James W. Flexible multiple conductor cable and mounting means therefor. 3,120,575, 2-4-64, Cl. 174-115.
- Hudson, John M.: *See*—
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- Hudson, Lena M., and J. M. Schwartz, to Hausch & Lomb Inc. Gaussian photographic objective. 3,126,437, 3-24-64, Cl. 88-57.
- Hudson, Milton W., and G. Southwell, to International Resistance Co. Variable resistor. 3,127,583, 3-31-64, Cl. 338-174.
- Hudson, Ray E., to The Bell Corp. Analog computer. 3,159,343, 12-1-64, Cl. 235-200.
- Hudson, Raymond W. Can piercing apparatus. 3,121,284, 2-18-64, Cl. 30-4.
- Hudson, Robert L. Scarfing attachment for cutting scarf joints in dimension lumber. 3,133,567, 5-19-64, Cl. 144-127.
- Hudson, William M., and J. A. King, to The British Oxygen Co. Ltd. Electric arc welding. 3,138,735, 6-23-64, Cl. 314-69.
- Hueber, Josef: *See*—
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- Huebner, Charles F., to Ciba Corp. Alpha oxy-beta alkyl-gamma tertiary amino-alpha phenyl propanes. 3,151,124, 9-29-64, Cl. 260-325.5.
- Huebner, Charles F., and L. B. Witkin, to Ciba Corp. Amino compounds. 3,142,619, 7-28-64, Cl. 167-65.
- Huebner, Charles G., to Ciba Corp. Esters. 3,133,931, 5-19-64, Cl. 260-295.
- Huebner, William C., to Advanced Graphics, Inc. Misting apparatus for treating printing plates. 3,139,028, 6-30-64, Cl. 101-147.
- Huegel, Edwin H., and J. B. Murphy. Rake. 3,130,533, 4-28-64, Cl. 56-400.17.
- Huegel, Francis J., and C. H. Li, to Minneapolis-Honeywell Regulator Co. Dispersion hardened materials. 3,137,927, 6-23-64, Cl. 1029-182.5.
- Huehn, Werner: *See*—
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- Huelskamp, Donald A., to Koehring Co. Extruder lifting and rotating device. 3,162,900, 12-29-64, Cl. 18-30.
- Huelster, Otto J., to Scovill Mfg. Co. Lock slider for zipper fasteners. 3,133,328, 5-19-64, Cl. 24-205.14.
- Huemer, Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Rosler. Herbioidal composition and method. 3,138,445, 6-23-64, Cl. 71-2.5.
- Hueschen, Gordon W. Symbolic tear string envelope or wrapper. 3,139,231, 6-30-64, Cl. 229-86.
- Huet, Andre. Water and steam separators for evaporators. 3,116,721, 1-7-64, Cl. 122-34.
- Huet, Andre. Light boiler for nuclear energy installation. 3,130,779, 4-28-64, Cl. 165-146.
- Huet, Andre. Heat exchanger with grooved tubes. 3,138,201, 6-23-64, Cl. 165-163.
- Huet, Andre. Apparatus for controlling the activity of a reactor. 3,140,981, 7-14-64, Cl. 176-35.
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- Huet, Andre. Nuclear reactor supplying superheated steam. 3,156,626, 11-10-64, Cl. 176-54.
- Hueter, Theodore F., to Minneapolis-Honeywell Regulator Co. Underwater sound apparatus. 3,141,148, 7-14-64, Cl. 340-9.
- Huett, George C., H. L. Briggs, and K. G. Probst, to Eugene Dietzgen Co. Thermographic reproduction paper and method of using. 3,161,770, 12-15-64, Cl. 250-65.
- Huett, George C., H. L. Briggs, and C. B. Lawyer, to Eugene Dietzgen Co. Thermographic reproduction paper, method of making and method of using. 3,162,763, 12-22-64, Cl. 250-65.
- Huetten, Clarence: *See*—
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- Hney, Joan M. Protective cover for dogs. 3,141,443, 7-21-64, Cl. 119-143.
- Huey, Samuel T., to Radio Corp. of America. Pulse length discriminator utilizing two gating circuits. 3,122,647, 2-25-64, Cl. 307-88.5.
- Huey, William G., and S. L. Cannone, to General Aniline & Film Corp. Preparation of stilbene azo dyes. 3,122,529, 2-25-64, Cl. 260-143.
- Hufeld, Francis X.: *See*—
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- Huff, Carl, to Oxford Laboratories. Apparatus for determining prothrombin time. 3,158,445, 11-24-64, Cl. 23-253.
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- Huff, George F., and R. M. Hunt, to Calery Chemical Co. Method of producing boron containing materials. 3,133,969, 5-19-64, Cl. 260-606.5.
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- Huff, Louie A. Attachment for a fork lift. 3,125,236, 3-17-64, Cl. 214-620.
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- Huff, Terrence, and E. Perry, to Monsanto Co. Polymerization inhibitor. 3,138,644, 6-23-64, Cl. 260-666.5.
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- Huffer, Robert L., to Electrotrim, Inc. Folding music stand. 3,134,193, 5-26-64, Cl. 45-121.
- Hufferd, George H., to Clevite Corp. Piezoelectric voltage generator. 3,156,227, 11-10-64, Cl. 123-148.
- Huffman, Charles O., G. W. Mission, and W. F. Galey, to Pittsburgh Plate Glass Co. Glass cutting apparatus. 3,146,926, 9-1-64, Cl. 225-96.5.
- Huffman, Chester A. Wind velocity alarm. 3,162,847, 12-22-64, Cl. 340-241.
- Huffman, Clarence W., and M. Hamer, to International Minerals & Chemical Corp. Process for the production of organic phosphorus halide-aluminum halide complexes and phosphonic acid diesters and diamides. 3,149,137, 9-15-64, Cl. 260-448.
- Huffman, Clarence W., and M. Hamer, to International Minerals & Chemical Corp. Process for the production of monoalkyl phosphonic acid diesters, diamides, and dihalides. 3,149,144, 9-15-64, Cl. 260-461.
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- Huffman, Donald E., P. P. Petros, and W. J. Zenner, to Teletype Corp. Apparatus for automatically effecting line switching of telegraph messages. 3,124,643, 3-10-64, Cl. 178-3.
- Huffman, Harold W., to The Hamilton Tool Co. Cammed tucker-blade folder. 3,124,349, 3-10-64, Cl. 270-73.
- Huffman, Harold W., to The Hamilton Tool Co. Screw folder for continuous forms. 3,124,350, 3-10-64, Cl. 270-79.
- Huffman, Herman M., and C. K. Muth. Method and apparatus for pressure counterbalance in fluid machines. 3,134,336, 5-26-64, Cl. 103-126.
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- Huffman, Max N. 3-allyloxy-16-oximino-17-keto steroids. 3,137,709, 6-16-64, Cl. 260-397.4.
- Huffman, Max N., to Lasdon Foundation, Inc. Production of 17 beta-alkyl ethers of 16-keto-17 beta-hydroxy steroids. 3,155,691, 11-3-64, Cl. 260-397.4.
- Huffman, Max N., to Lasdon Foundation, Inc. 16,17-bis-oximinoestrone-3-ols and ethers thereof. 3,159,656, 12-1-64, Cl. 260-397.5.
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- Hugel, Robert, and A. Pasetti, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for methionine nitrile synthesis. 3,131,210, 4-28-64, Cl. 260-465.5.
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- Huggins, Homer D., and R. S. Slaasted, to Modine Manufacturing Co. Method of making a heat exchanger. 3,136,038, 6-9-64, Cl. 29-157.3.
- Huggins, Owen R., to Malleable Iron Fittings Co. Support for an aerial cable suspension clamp. 3,129,917, 4-21-64, Cl. 248-221.
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- Hunt, James L., J. Kiesel, and H. E. Farintosh, to Canefco Ltd. Furnace. 3,133,513, 5-19-64, Cl. 110-173.
- Hunt, John E., to General Cable Corp. Horizontal payoff and reel lift. 3,119,575, 1-28-64, Cl. 242-129.7.
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- Hunt, Lawrence G., and H. A. Wilmeth, to Kennecott Copper Corp. Dual-tube drill string for sample drilling. 3,155,179, 11-3-64, Cl. 175-215.
- Hunt, Llewellyn E. Means for concentrating solar energy. 3,118,437, 1-21-64, Cl. 126-270.
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- Hunt, Mack W., to Continental Oil Co. Amine boranes. 3,136,820, 6-9-64, Cl. 260-583.
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- Hunt, Max L. Rhythm rocker. 3,139,630, 7-7-64, Cl. 5-109.
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- Hunt, Robert G., to Marco Products Co. Plumbers' snake. 3,149,480, 9-22-64, Cl. 64-2.
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- Issbrucker, Kurt P., to VEB Massindustrie Werdau. Pressure regulator for pneumatic measuring apparatus. 3,136,329, 6-9-64, Cl. 137-338.
- Issott, John W., to Calumet & Hecla, Inc. Apparatus for producing longitudinal, internal, and integral fins in tubing. 3,118,328, 1-21-64, Cl. 80-11.
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- Ito, Yosoji, and S. Okabe, to Telokku Hormone Mfg. Co., Ltd. Method of producing a substance having new strong physiological actions from human or cattle saliva. 3,153,616, 10-20-64, Cl. 167-74.
- Ito, Kazuo, to Kurashiki Rayon Co., Ltd. Process for producing polyvinyl alcohol-vinylamine copolymers. 3,117,951, 1-14-64, Cl. 260-91.3.
- Itria, Oswald A., to Texaco Inc. Method of determining shear wave velocities. 3,127,950, 4-7-64, Cl. 181-5.
- Ittlinger, Rudolf, to International Minerals & Chemical Corp. Process for the clarification of an acidic inorganic phosphoric solution. 3,129,170, 4-14-64, Cl. 210-54.
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- Izenour, George C., to Century Lighting, Inc. Lighting control circuit. 3,142,781, 7-28-64, Cl. 315-194.
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- Jahlonksi, Edward R., and H. A. Van Dusen, Jr., to McGraw-Hill Co. Pole top mounted luminaire. 3,156,418, 11-10-64, Cl. 240-84.
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- Jack, Robert K., Jr., to Midland-Ross Corp. Diaphragm. 3,135,173, 6-2-64, Cl. 92-103.
- Jack, William, Jr., to Baker Perkins Jaxons Ltd. Folding machine. 3,148,875, 9-15-64, Cl. 270-80.
- Jack, William A., and G. W. Landgraf, to Johns-Manville Corp. Method of cutting patterns in acoustical tile. 3,117,403, 1-14-64, Cl. 51-311.
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- Jacke, Raymond E., to Reynolds Metals Co. Reclosable cartons and blanks therefor. 3,128,934, 4-14-64, Cl. 229-14.
- Jackel, Arthur P., to Westinghouse Air Brake Co. Pipeline metering and product delivery control system. 3,130,867, 4-28-64, Cl. 222-20.
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- Jackson, Byron L., and C. E. McCurry, to Robertshaw Controls Co. Carton sealing apparatus. 3,158,869, 12-1-64, Cl. 1-104.
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- Jackson, Charles H., to Hi-Shear Corp. Squib. 3,135,200, 6-2-64, Cl. 102-28.
- Jackson, Charles Q., F. D. Larmore, and J. Y. Edinger, to Evans Harbor Products Co. Apparatus for assembling plywood units. 3,122,750, 3-3-64, Cl. 1-106.
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- Jackson, George W., and J. F. Pribonic, to General Motors Corp. Control for pneumatic suspension system. 3,135,524, 6-2-64, Cl. 280-61.
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- Jackson, Harold E., to Tecalemit Ltd. Lubrication systems for vehicles and machines. 3,139,952, 7-7-64, Cl. 184-7.
- Jackson, Harold E., to Tecalemit Ltd. Oil burner assembly with air/oil rate adjusting means. 3,144,075, 8-11-64, Cl. 158-76.
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- Jackson, James A., and W. L. Self-propelled dart. 3,162,444, 12-22-64, Cl. 273-106.5.
- Jackson, James A., and W. L. One-piece balloon valve and holder. 3,162,974, 12-29-64, Cl. 46-32.
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- Jackson, John M., to Armco Steel Corp. Non-directional oriented silicon-iron. 3,130,090, 4-21-64, Cl. 148-31.55.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Modified hydrous metal oxide pigments and the preparation thereof. 3,136,648, 6-9-64, Cl. 106-302.
- Jackson, Julius, and W. J. Marshall, to E. I. du Pont de Nemours and Co. Process for preparing quinaclidone pigments. 3,148,191, 9-8-64, Cl. 260-279.
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- Jackson, William H., to The Udyllite Corp. Rotary tiltable drum dryer. 3,121,621, 2-18-64, Cl. 34-126.
- Jackson, William H., to The Udyllite Corp. Electroplating barrel. 3,153,624, 10-20-64, Cl. 204-213.
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- Jacob, Lawrence N., to Sun Oil Co. Indicator paper. 3,139,328, 6-30-64, Cl. 23-253.
- Jacob, Lawrence N., to Sun Oil Co. Sweetening hydrocarbons. 3,144,403, 8-11-64, Cl. 208-207.
- Jacob, Robert M., and J. G. Robert, to Societe des Usines Chimiques Rhone-Poulenc. Phentiazine derivatives. 3,130,194, 4-21-64, Cl. 260-243.
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- Jacobi, Frederick P. Exercising apparatus. 3,156,465, 11-10-64, Cl. 272-57.
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- Jacobs, Gerhard, and G. Sless. Slit width adjustment means for optical instruments. 3,160,697, 12-8-64, Cl. 88-14.
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- Jacobs, J. Donovan. Movable trackways for tunnels and method for moving tunnel flooring. 3,138,327, 6-23-64, Cl. 238-10.
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- Jacobs, James W., to General Motors Corp. Clothes conditioning apparatus. 3,163,029, 12-29-64, Cl. 68-12.
- Jacobs, James W., B. L. Brucken, and G. B. Long, to General Motors Corp. Dry cleaning system with a replaceable filter cartridge and means for venting solvent fumes. 3,132,501, 5-12-64, Cl. 68-18.
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- Jacobs, Philip F., to Secure-Ur-Trip Inc. Form-ejecting machine. 3,119,538, 1-28-64, Cl. 226-157.
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- Jacobs, William H. Circulating and dispensing apparatus for beverage coolers. 3,119,531, 1-28-64, Cl. 222-318.
- Jacobsen, Albert J., and E. F. Zlotnick, to The Bendix Corp. Underlying means for punching a clutch plate. 3,136,193, 6-9-64, Cl. 83-467.
- Jacobsen, Allen I. Swimmer training device. 3,142,485, 7-28-64, Cl. 272-57.
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- Jacobsen, Elmo A. Ignition key warning device. 3,138,780, 6-23-64, Cl. 340-52.
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- Jacobsen, Paul W.: See—
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- Jacobson, Dale D. Adjustable window blind. 3,156,956, 11-17-64, Cl. 20-62.
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- Jacobson, Irvin D., to Perfection Pipe Nipple Co. Heat trap for hot water storage tanks. 3,117,622, 1-14-64, Cl. 165-132.
- Jacobson, Irving. Camera control attachment. 3,138,080, 6-23-64, Cl. 95-31.
- Jacobson, Melvin J., and J. R. Glodek. Rotary engine. 3,137,280, 6-16-64, Cl. 123-14.
- Jacobson, Milton D. Pants having a side opening. 3,149,343, 9-22-64, Cl. 2-235.
- Jacobson, Robert E., to United States Gypsum Co. Film-covered article and method of making same. 3,149,018, 9-15-64, Cl. 161-43.
- Jacobson, Robert L., to California Research Corp. Hydrogenation of high boiling oils. 3,145,160, 8-18-64, Cl. 208-254.
- Jacobson, Sidney. Accessory for garment steaming devices. 3,142,916, 8-4-64, Cl. 38-97.
- Jacobson, William P., to American Can Co. Carton. 3,127,083, 3-31-64, Cl. 229-51.
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- Jahn, Eva-Maria, and H. Brenken, to The British Petroleum Co. Ltd. Process for the production of liquid paraffin. 3,139,399, 6-30-64, Cl. 208-264.
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- Jahns, Edward R., to Hoffman Electronics Corp. Width control. 3,132,283, 5-5-64, Cl. 315-27.
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- Jallen, Gale A., R. R. Reisinger, and D. K. Sampson, to Data Products Corp. Linear motors. 3,130,331, 4-21-64, Cl. 310-14.
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- Jeffries, Sampson F., to The Dow Chemical Co. Thin film coating for tablets and the like and method of coating. 3,149,038, 9-15-64, Cl. 167—82.
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- Jend, Paul. Tamper-proof holder for paper rolls. 3,155,333, 11-3-64, Cl. 242—55.2.
- Jenison, Richard B. Safety pin. 3,135,035, 6-2-64, Cl. 24—161.

- Jenk, Robert L., to The Mead Corp. Corner post construction. 3,129,868, 4-21-64, Cl. 229—14.
- Jenkin, William C., to Union Carbide Corp. Method of depositing metal coatings in holes, tubes, cracks, fissures and the like. 3,155,499, 11-24-64, Cl. 117—107.2.
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- Jenkins, Bruce R., to Technical Appliance Corp. Adjustable support to manipulate feed wayguide from rear of dish. 3,145,385, 8-18-64, Cl. 343—781.
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- Jenkins, Felton S., and A. D. Kompelien, Arlon D., to Minneapolis-Honeywell Regulator Co. Supervisory system. 3,138,792, 6-22-64, Cl. 340—213.
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- Jenkins, Hugh P., Jr.: See—
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- Jenkins, Kenneth D.: See—
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- Jenkins, Lloyd T.: See—
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- Jenkins, Lloyd T., to Monsanto Chemical Co. Polymerization indicators for polar monomers. 3,124,561, 3-10-64, Cl. 260—88.7.
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- Jenkins, Merrill M. E. Flow detector device. 3,118,983, 1-21-64, Cl. 200—61.42.
- Jenkins, Philip, to Pye Ltd. Liquid sampling apparatus for gas chromatography. 3,118,300, 1-21-64, Cl. 73—23.
- Jenkins, Richard H., and E. H. Wieber, to Vibration Measurement Engineers. Blasting machine. 3,141,114, 7-14-64, Cl. 317—80.
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- Jenkinson, John V., to Microwave Associates, Inc. Method of manufacturing point contact semiconductor devices. 3,127,659, 4-7-64, Cl. 29—25.3.
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- Jenks, Vincent. Traction device. 3,133,581, 5-19-64, Cl. 152—216.
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- Jenni, James R. Snake toxicant. 3,117,058, 1-7-64, Cl. 167—46.
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- Jennings, Gerald M., and J. D. Gooding, to Everest & Jennings, Inc. Transfer chair. 3,139,306, 6-30-64, Cl. 297—326.
- Jennings, Irving C. Pump priming. 3,131,637, 5-5-64, Cl. 103—26.
- Jennings, Irving C. Pumping device. 3,154,240, 10-27-64, Cl. 230—79.
- Jennings, James W.: See—
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- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch and actuator assembly. 3,148,259, 9-8-64, Cl. 200—144.
- Jennings, Marvin D.: See—
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- Jennings, Marvin D., to International Harvester Co. Rear wheel mounting for two-way plow. 3,123,150, 3-3-64, Cl. 172—219.
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- Hawkins, Jack S. 3,154,655.
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- Nelbaur, Roderick W. 3,156,852.
- Jennings, Samuel J. Rotary rib cotton gin. 3,135,021, 6-2-64, Cl. 19—56.
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- Jennings, Walter E., to The Dow Chemical Co. Apparatus for making models of structures. 3,153,299, 10-20-64, Cl. 46—29.
- Jennings, William A., to Economy Forms Corp. Structural lock. 3,132,403, 5-12-64, Cl. 25—131.
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- Jennings, William A., to Economy Forms Corp. Locking connection for concrete forms. 3,160,940, 12-15-64, Cl. 25—131.
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- Jenny, Hans K., to Radio Corp. of America. Radar system and component apparatus. 3,163,862, 12-29-64, Cl. 343—17.1.
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- Jenny, Theodore M., D. H. Porter, and R. H. Rice, to FMC Corp. Distillation of hydrogen peroxide. 3,152,052, 10-6-64, Cl. 202—46.
- Jenot, Michel, to Societe d'Exploitation des Ateliers Rene Halftermeyer. Line scanning transformer with adjustable leakage inductance. 3,117,122, 1-14-64, Cl. 336—134.
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- Jensen, Alan K., to Monroe Calculating Machine Co. Monopulser utilizing a minority carrier storage diode. 3,134,028, 5-19-64, Cl. 307—88.5.
- Jensen, Andrew O.: See—
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- Jensen, Arthur E. Irrigation apparatus. 3,147,764, 9-8-64, Cl. 137—344.
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- Jensen, Carl N., to The Carborundum Co. Scouring pads. 3,148,404, 9-15-64, Cl. 15—605.
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- Jensen, Gerald A., to Avco Corp. Plasma-jet torch apparatus and method relating to increasing the life of the downstream electrode. 3,148,263, 9-8-64, Cl. 219-75.
- Jensen, Hans, to Gits Bros. Mfg. Co. Rotary seal with annular bead. 3,138,390, 6-23-64, Cl. 277-42.
- Jensen, Hans, and R. H. Andersen, to Gits Bros. Mfg. Co. Unitized face type rotary seal. 3,120,959, 2-11-64, Cl. 277-37.
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- Jensen, Irving J. Boat anchor. 3,123,037, 3-3-64, Cl. 114-208.
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- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Low frequency magnetic core stepping device. 3,127,521, 3-31-64, Cl. 307-88.
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- Jensen, James R., and D. R. Jacoby, to Eltra Corp. Amphibious helicopter with detachable hull. 3,131,888, 5-5-64, Cl. 244-17.7.
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- Jensen, Philip B., to Scovill Mfg. Co. Snap fastener. 3,159,890, 12-8-64, Cl. 24-214.
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- Jentges, Thomas W., to C. M. Conte. Closure structures. 3,120,327, 2-4-64, Cl. 222-212.
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- Jepson, Ivar, to Sunbeam Corp. Tea kettle with closure lid, handle, and pouring spout. 3,130,881, 4-28-64, Cl. 222-470.
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- Jernigan, Holley S., to The Dow Chemical Co. Tape dispenser. 3,123,266, 3-3-64, Cl. 225-48.
- Jernigan, Paul S. Moisturizers and vaporizers for internal combustion engines. 3,141,447, 7-21-64, Cl. 123-25.
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- Johnson, Carl E., to Nalco Chemical Co. Treatment of metal surfaces to place finely divided sulfur thereon. 3,126,313, 3-24-64, Cl. 167-20.
- Johnson, Carl T., G. A. Kane, M. C. Neuman, and K. A. Riach, to United States of America, Navy. Ammunition handling and loading system for major caliber guns. 3,122,967, 3-3-64, Cl. 89-46.
- Johnson, Carl W. Milo topping machine. 3,143,839, 8-11-64, Cl. 56-23.
- Johnson, Carl W., and M. Pedersen, to American Machine & Foundry Co. Button stitching machines. 3,121,411, 2-18-64, Cl. 112-110.
- Johnson, Carl W., and M. Pedersen, to American Machine & Foundry Co. Button stitching machines. 3,132,613, 5-12-64, Cl. 112-110.
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- Hill, James H. 3,129,987.
- Johnson, Charles A., to John W. Bolton & Sons, Inc. Bottom drive pulper with stationary blades. 3,163,368, 12-29-64, Cl. 241-46.
- Johnson, Charles D.: See—
- Pehoski, Walter L., Stariha, and Johnson. 3,144,835.
- Johnson, Charles D., to Fairmont Railway Motors, Inc. Apparatus for setting and driving railroad spikes. 3,163,122, 12-29-64, Cl. 104-17.
- Johnson, Charles E.: See—
- John, Ralph M., Wiseman, and Johnson. 3,149,979.
- Johnson, Charles F., to McEvoy Co. Pipe anchor. 3,130,987, 4-28-64, Cl. 285-146.
- Johnson, Charles M., to International Business Machines Corp. Telemetry system. 3,142,837, 7-28-64, Cl. 343-100.
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- Brouillette, Joseph W., Jr., and Johnson. 3,159,743.
- Johnson, Christopher L., to Rolls-Royce Ltd. Gas turbine engine fuel system. 3,151,658, 10-6-64, Cl. 158-36.4.
- Johnson, Christopher L., and A. Jubb, to Rolls-Royce Ltd. Gas turbine engine control using plural servomotors. 3,132,480, 5-12-64, Cl. 60-39.25.
- Johnson, Clarence A., and W. Volk, to Hydrocarbon Research, Inc. Use of lined passivation chamber in an iron powder passivating process. 3,147,106, 9-1-64, Cl. 75-5.
- Johnson, Clarence L.: See—
- Harrington, John A., Broersma, Runnells, and Johnson. 3,118,158.
- Johnson, Clarence T., to M.J.C. Development Co., Inc. Electromagnetic and vacuum debris collector. 3,150,404, 9-29-64, Cl. 15-339.
- Johnson, Clayton R.: See—
- Hanson, Daniel T. 3,160,147.
- Johnson, Clifford D.: See—
- Horne, Arthur L., and Johnson. 3,162,929.
- Johnson, Clifford R., and T. H. Swanson, to Fred H. Schaub Engineering Co. Seal for displacer operated mechanism. 3,153,932, 10-27-64, Cl. 73-309.
- Johnson, Dale E., and F. H. Loftus, to United States of America, Atomic Energy Commission. Method of making nuclear fuel compact. 3,161,701, 12-15-64, Cl. 264-21.
- Johnson, Daniel C., to National Research Development Corp. Two shoe servo brake. 3,156,322, 11-10-64, Cl. 188-78.
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- Johnson, David A., and G. A. Hardcastle, Jr., to Bristol-Myers Co. D-(—)- α -aminobenzylpenicillin trihydrate. 3,157,640, 11-17-64, Cl. 260-239.1.
- Johnson, David A., and S. Wolfe, to Bristol-Myers Co. Process for the production of α -aminobenzyl-penicillins. 3,140,282, 7-7-64, Cl. 260-239.1.
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- Norman, Bernard J., and Johnson. 3,126,905.
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- Johnson, Earl A. N. Method and apparatus for mat forming. 3,158,668, 11-24-64, Cl. 264-116.
- Johnson, Earl O. Pump attachment for outboard motors. 3,135,214, 6-2-64, Cl. 103-87.
- Johnson, Earl W., to Cities Service Oil Co. Interval timer. 3,140,145, 7-7-64, Cl. 346-109.
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- Johnson, Edwin W., to Rotax Ltd. Protection unit for use with electrical or other apparatus. 3,119,952, 1-28-64, Cl. 317-27.

- Johnson, Edwin W., and C. Paulson, to C. I. Hayes, Inc. Heat treatment furnace and conveyor therefor. 3,137,485, 6-16-64, Cl. 263-6.
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- Johnson, Elmer C., to The Vendo Co. Universal vending apparatus. 3,122,401, 2-25-64, Cl. 312-97.1.
- Johnson, Elmer C., to The Vendo Co. Vending machine rotary article carrier having capacity increasing divider structure. 3,158,417, 11-24-64, Cl. 312-97.
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- Johnson, Elmer E., and R. T. Adams, to California Research Corp. Bisulfite addition using a perester-iron salt initiator. 3,150,169, 9-22-64, Cl. 260-513.
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- Johnson, Francis, to The Dow Chemical Co. Process for preparing actiphenols. 3,152,130, 10-6-64, Cl. 260-281.
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- Johnson, Francis, to The Dow Chemical Co. 1-oxo-2-(3-glutarimidy) ethane derivatives and preparation thereof. 3,153,651, 10-20-64, Cl. 260-281.
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- Johnson, Francis M., to United States of America, Air Force. Chaff dispenser system. 3,137,231, 6-16-64, Cl. 102-34.4.
- Johnson, Frank F., to Schlumberger Well Surveying Corp. Neutron-gamma ray well logging device for distinguishing between shale and sandstone. 3,139,528, 6-30-64, Cl. 250-83.3.
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- Johnson, Fred O., to American District Telegraph Co. Vault alarm timer switch. 3,145,271, 8-18-64, Cl. 200-38.
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- Johnson, John E., and A. F. G. von Soden; said von Soden, assor. of 10% to L. R. Lopez. Receptacles with vacuum cell units or the like. 3,144,160, 8-11-64, Cl. 220-9.
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- Johnson, John L., to The Wyatt Mfg. Co., Inc. Blending and grinding apparatus. 3,145,644, 8-25-64, Cl. 99-235.
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- Johnson, Oscar H., to Parker Mfg. Co. Stapler. 3,149,339, 9-22-64, Cl. 1-49.
- Johnson, Oscar H., to Parker Mfg. Co. Stapler. 3,158,868, 12-1-64, Cl. 1-49.
- Johnson, Paul A., and R. A. Schulze, to E. I. du Pont de Nemours and Co. Integrated process for making monovinylacetylene from dilute acetylene gas. 3,147,312, 9-1-64, Cl. 260-678.
- Johnson, Paul O.: See—
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- Johnson, Paul R., to Chicago Bridge & Iron Co. Mounting for invertible vessel. 3,146,983, 9-1-64, Cl. 248-141.
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- Johnson, Ralph S., to General Motors Corp. Alternating flow catalytic converter. 3,149,926, 9-22-64, Cl. 23-288.
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- Johnson, Richard H., to The Upjohn Co. Solid medicinal dosage forms coated with hydroxyethylcellulose and hydrolyzed styrene-maleic anhydride copolymer. 3,132,075, 5-5-64, Cl. 167-82.
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- Johnson, Robert B., to Eastman Kodak Co. Magnetic record-playback head. 3,133,159, 5-12-64, Cl. 179-100.2.
- Johnson, Robert H., to General Electric Co. Combustion chamber. 3,134,229, 5-26-64, Cl. 60-39.65.
- Johnson, Robert J. Baby seat. 3,126,226, 3-24-64, Cl. 297-174.
- Johnson, Robert O., to Fenestra, Inc. Door structure. 3,160,201, 12-8-64, Cl. 160-206.
- Johnson, Robert W., to Carrier Corp. Refrigeration apparatus for operation under low head pressure. 3,133,426, 5-19-64, Cl. 62-196.
- Johnson, Robert W., to Carrier Corp. Refrigeration systems with condenser by-pass means. 3,134,241, 5-26-64, Cl. 62-196.
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- Johnson, Vernon V., to E. H. Gebhart. Releasable fluid line coupling. 3,140,102, 7-7-64, Cl. 280-421.
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- Johnson, Waldo O., to Weather-Seal, Inc. Door latch. 3,136,571, 6-9-64, Cl. 292-166.
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- Johnson, Walter C., to General Devices, Inc. Diode switching circuit for delivering substantially undistorted signals employing two constant current sources. 3,126,488, 3-24-64, Cl. 307-88.5.
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- Johnson, Wayne R., to Winston Research Corp. High speed, high density optical recording system. 3,154,370, 10-27-64, Cl. 346-108.
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- Johnson, Wayne W., M. Lew, and R. E. McElwain, to United States of America, Navy. Stabilization of aqueous alkanolamine solutions in gas treating processes. 3,137,654, 6-16-64, Cl. 252-189.
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- Johnson, William E., deceased (E. C. Johnson, administratrix), and G. F. Dalby. Power operated reciprocating tool. 3,145,449, 8-25-64, Cl. 29-76.
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- Jones, Alan R., R. J. and D. F. Mitchell, to International Equipment Co. Centrifuges. 3,129,175, 4-14-64, Cl. 233-28.
- Jones, Albert C., F. J. Lingel, and P. B. Troup, to General Electric Co. Tuning fork. 3,122,047, 2-25-64, Cl. 84-409.
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- Jones, Alfred H. Dispensing comb apparatus having removable dispensing means. 3,137,305, 6-16-64, Cl. 132-116.
- Jones, Arthur B., and H. W. Fairbairn, to The Mettoy Co. Ltd. Model vehicles. 3,144,731, 8-18-64, Cl. 46-201.
- Jones, Arthur L., to The Standard Oil Co. Separation of helium from a gaseous mixture by means of a novel selective diffusion barrier. 3,135,591, 6-2-64, Cl. 35-16.
- Jones, Arthur L., and E. E. Cuckson, to W. E. Cuckson & Sons Proprietary Ltd. Slide fastener stringer. 3,141,217, 7-21-64, Cl. 24-205.1.
- Jones, Arthur R., to General Motors Corp. Foundry molding machine. 3,143,775, 8-11-64, Cl. 22-40.
- Jones, Benjamin G., to Tidewater Oil Co. Isomerization catalyst reactivation. 3,119,885, 1-28-64, Cl. 260-683.75.
- Jones, Bernice L., to Newport News Shipbuilding and Dry Dock Co. Noise attenuation apparatus for liquid conducting conduits. 3,148,745, 9-15-64, Cl. 181-48.
- Jones, Bobby B., to K. MacKay, deceased; G. L. MacKay, K. H. MacKay, Jr., and J. F. MacKay, coexecutors. Individual serving tray. 3,151,577, 10-6-64, Cl. 108-46.
- Jones, Bobby B., to K. MacKay, deceased; G. L. MacKay, K. H. MacKay, Jr., and J. F. MacKay, coexecutors. Tray. 3,151,578, 10-6-64, Cl. 108-46.
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- Jones, Clarence S., to General Precision, Inc. Signalling system. 3,125,753, 3-17-64, Cl. 343-6.5.
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- Jones, Coy V., Sr., to Southern Machinery Co. Weight operated engine starting and anti-stalling switch means. 3,143,613, 8-4-64, Cl. 200-83.
- Jones, Coy V., Sr., and W. Engels, to Southern Machinery Co. Safety valve device for fluid pressure brake systems. 3,148,693, 9-15-64, Cl. 137-118.
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- Jones, Herbert N., and I. C. Campsie, to United Kingdom Atomic Energy Authority. Fabrication of nuclear reactor fuel elements. 3,153,280, 10-20-64, Cl. 29-473.3.
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- Wilson, Charles P., Jr., Jones, and Clapetta. 3,124,540.
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- Kaltenbach, Alois: See—
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- Kaman, Frank A., to Thor Power Tool Co. Pneumatic hoist. 3,125,200, 3-17-64, Cl. 192-3.
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- Kamborian, Jacob S. Applicator for molten adhesive. 3,121,156, 2-11-64, Cl. 219-21.
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- Kaminski, Raymond E., to International Minerals & Chemical Corp. Reusable mailing device. 3,151,803, 10-6-64, Cl. 229-80.
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- Kaminstein, Bernard. Hydrojet propulsion apparatus. 3,137,997, 6-23-64, Cl. 60-35.6.
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- Karner, Frank. Air conditioned seat. 3,137,523, 6-16-64, Cl. 207-180.
- Karo, David. Voltage stabilizing electrical transformers. 3,129,383, 4-14-64, Cl. 323-48.
- Karo, Wolf, and B. D. Halperin, to The Borden Co. Neopentyl glycol acrylate ester compositions. 3,125,480, 3-17-64, Cl. 156-310.
- Karol, Kenneth N., to Radio Corp. of America. Electron discharge device. 3,119,043, 1-21-64, Cl. 315-355.
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- Karosen, Leon, to Youthcraft Mfg. Co. Package and method for making a garment. 3,136,412, 6-9-64, Cl. 206-45.31.
- Karp, Edward C., to Sanitary Scale Co. Slicer. 3,124,185, 3-10-64, Cl. 146-102.
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- Karp, Jesse R.: See—
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- Karp, Raymond E., to United States of America, Navy. Parachute release mechanism. 3,153,395, 10-20-64, Cl. 114-20.
- Karpak Co.: See—
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- Karparmursan Assoc., Inc.: See—
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- Karpf, Rudolf, to Helppara G.m.b.H. Parachute. 3,152,782, 10-13-64, Cl. 244-145.
- Karpis, John J. Fluid regulator. 3,143,134, 8-4-64, Cl. 137-486.
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- Karpovich, John, and D. D. Setser, to The Dow Chemical Co. Method of fracturing an earth formation with a frangible imbeddable device. 3,151,679, 10-6-64, Cl. 166-42.
- Karpplinen, Charles E., to American Radiator & Standard Sanitary Corp. Liquid line thermostat. 3,157,356, 11-17-64, Cl. 236-34.
- Karpus, Arthur J.: See—
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- Karr, Alexander, and J. J. Brighindl. Wire brush stabilizer. 3,118,162, 1-21-64, Cl. 15-180.
- Karr, Michael A., Jr., to Vallee Sales & Engineering Co., Inc. Throttling and shut-off valve. 3,145,010, 8-18-64, Cl. 251-210.
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- Karrer, Weber & Cie. Armaturenfabrik und Metallgiesserei. Aktiengesellschaft: See—
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- Karrer, Paul: See—
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- Karsberg, Ake. Apparatus for generating periodic impulses in a pressure line. 3,119,366, 1-28-64, Cl. 116-55.
- Karsh, Herbert, to Epsco, Inc. Automatic sphygmomanometer. 3,126,886, 3-31-64, Cl. 128-205.
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- Kasak, August, E. J. Dulis, and V. K. Chandhok, to Crucible Steel Co. of America. Heat resistant high strength stainless steel. 3,154,412, 10-27-64, Cl. 75-128.
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- Kasemir, Heinz W., to United States of America, Army. Instrument for measuring electrical air-earth current. 3,121,196, 2-11-64, Cl. 324-32.
- Kashew, John A., to J. W. Sereda. Rowing device. 3,156,934, 11-17-64, Cl. 9-25.
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- Kaspaul, Alfred F. and E. E., to Minnesota Mining and Mfg. Co. Information recording. 3,140,143, 7-7-64, Cl. 346-1.
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- Kass, Bernard H. Vibration isolator. 3,144,228, 8-11-64, Cl. 248-21.

- Kass, Sholom, to Fisher & Porter Co. Means for suppressing fluctuations in signal-responsive devices utilizing a self bias-adjusting class C deadband amplifier in a rebalancing servosystem. 3,153,779, 10-20-64, Cl. 340-187.
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- Katagiri, Hideo, H. Yamada, H. Izuka, K. Mitsugi, S. Motozaki, M. Takahashi, and K. Komagata, to Ajinomoto Kabushiki Kaisha. Process for preparing guanylic acid. 3,152,967, 10-13-64, Cl. 195-28.
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- Katchmar, Edward M., and W. Stanford. Stockline curtain for blast furnace. 3,143,586, 8-4-64, Cl. 266-31.
- Kates, Richard. Adjustable shelf support. 3,120,201, 2-4-64, Cl. 108-144.
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- Katona, Gabriel P., to Corning Glass Works. Electroluminescent cell and method. 3,129,108, 4-14-64, Cl. 117-33.5.
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- Kattis, Theodore. Small block ice making machine. 3,144,755, 8-18-64, Cl. 62-137.
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- Katz, Alex J., to Super Sagless Spring Corp. Reclining furniture and reclining mechanism therefor. 3,162,482, 12-22-64, Cl. 297-85.
- Katz, Charles, and M. E. Ryberg, to United States of America, Navy. Rotary cutlery carrier. 3,152,425, 10-13-64, Cl. 51-164.
- Katz, David. Anti-skid means for automotive vehicles. 3,123,121, 3-3-64, Cl. 152-214.
- Katz, David. Process and apparatus for obtaining fresh water from the sea. 3,127,330, 3-31-64, Cl. 202-46.
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- Katz, Leodore H. Thermal insulating blanket for concrete curing. 3,162,566, 12-22-64, Cl. 161-43.
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- Katz, Saul N., and D. J. Donovan, to General Foods Corp. Process of making quick-cooking pasta. 3,138,462, 6-23-64, Cl. 99-85.
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- Katze, W. Hampton: See—
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- Kaufeld, Don B., to Fols Packaging Corp. Tear open frozen food box. 3,116,869, 1-7-64, Cl. 229-51.
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- Kaufeld, Don B., to Fols Packaging Corp. Dielectric heat sealing. 3,141,804, 7-21-64, Cl. 156-257.
- Kaufman, Andrew G. Mooring device. 3,142,284, 7-28-64, Cl. 114-230.
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- Kaufman, Jay R.: See—
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- Kaufman, Melvin R.: See—
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- Kaufman, Melvin R., to General Electric Co. Combination latch and interlock system. 3,141,713, 7-21-64, Cl. 312-223.
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- Kaufman, Paul E.: See—
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- Kaufman, Arthur L., to Bohn Business Machines, Inc. Electronic photocopying apparatus and method. 3,146,100, 8-25-64, Cl. 96-1.
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- Kaufman, John E., and J. E. Ambrose, to American Gas Assn. Level control and fail safe arrangement for absorption refrigeration systems. 3,137,144, 6-16-64, Cl. 62-141.
- Kaufman, Lawrence, and H. V. Moore, Jr., to Sperry Rand Corp. Aircraft control servo apparatus having signal memorizing means. 3,128,968, 4-14-64, Cl. 244-78.
- Kaufman, Lloyd, and R. R. Strock, to Sperry Rand Corp. Navigation instrument for dirigible craft. 3,128,464, 4-7-64, Cl. 343-107.
- Kaufman, Martin H., and J. S. Davidson. Novel pyrotechnics. 3,122,462, 2-25-64, Cl. 149-35.
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- Kaufman, Melvin M.: See—
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- Hill, James J., and Kaufman. 3,143,662.
- Kaufman, Melvin M., to Radio Corp. of America. Tunnel diode switch circuits for memories. 3,119,985, 1-28-64, Cl. 340-173.
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- Hare, Wilbert K., and Kaufman. 3,160,308.
- Kaufman, Murray, and R. F. Wilde, to General Electric Co. Nickel base alloy. 3,155,501, 11-3-64, Cl. 75-171.
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- Kaufman, Sherman H. Liquid spray washing apparatus. 3,128,949, 4-14-64, Cl. 239-312.
- Kaufman, Theodore P.: See—
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- Kaufman, Tibor. Paper clamping device. 3,122,802, 3-3-64, Cl. 24-66.
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- Kaufman, Vernon R. Handle controlled vehicle. 3,150,735, 9-29-64, Cl. 180-19.
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- Kaufman, William M., to Westinghouse Electric Corp. Adjustable resistance-capacitance band pass filter using integral semiconductor having two reverse biased junctions. 3,148,344, 9-8-64, Cl. 333-70.
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- Kaufmann Awning Corp.: See—
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- Kaufmann, Carl P., to Elliott Machine Corp. Control arrangement for dredge ladder. 3,125,819, 3-24-64, Cl. 37-54.
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- Kaufmann, John, to General Precision, Inc. Reversible counter. 3,132,262, 5-5-64, Cl. 307-88.5.
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- Kaufmann, Phillip H.: See—
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- Kavekas, Benedictus K., and E. C. Raney, to The Wilcolator Co. Thermally responsive power means. 3,163,045, 12-29-64, Cl. 73-368.2.
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- Kazan, Eugene I. Photoelectric pressure transducer. 3,159,750, 12-1-64, Cl. 250-231.
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- Kearsley, Thomas, to Gullick Ltd. Roof supports for mines. 3,159,003, 12-1-64, Cl. 61-45.
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- Keeble, David. Machine for securing together the end turns of upholstery springs. 3,160,180, 12-8-64, Cl. 140-3.
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- Keefe, James T., to California Press Mfg. Co. Cooling tower. 3,143,897, 8-4-64, Cl. 34-174.
- Keefe, Lincoln M., to International Postal Supply Corp. Coin controlled apparatus. 3,126,994, 3-31-64, Cl. 194-1.
- Keefe, Vernon W., to J. W. Williams. Rotary hydraulic propulsion unit. 3,139,062, 6-30-64, Cl. 115-35.
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- Roossien, Elmer J. 3,135,010.
- Keeler, Charles H. Ophthalmic instruments. 3,131,695, 5-5-64, Cl. 128-395.
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- Keeling, Harold G., to K. Tower. Electronic sirens. 3,137,846, 6-16-64, Cl. 340-384.
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- Keenan, John G., J. Palfreyman, J. B. Holliday, and D. J. Pickrell, to Rolls-Royce Ltd. Gas turbine engines. 3,118,276, 1-21-64, Cl. 60-35.6.
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- Kehl, William L., and M. M. Stewart, to Gulf Research & Development Co. Process for producing alumina hydrate having 1.2 to 2.6 moles of water of hydration. 3,151,940, 10-6-64, Cl. 23-143.
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- Keith, Willis C., to Sinclair Refining Co. Preparation of aromatic polycarboxylated compounds. 3,157,691, 11-17-64, Cl. 260-475.
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- Kelm, Everett F., to Corning Glass Works. Connecting electrical units. 3,141,957, 7-21-64, Cl. 219-351.
- Kelmers, Andrew D., to Union Carbide Corp. Preparation of ammonium metavanadate. Re. 25,588, 6-2-64, Cl. 23-51.
- Kelner, Richard W., I. H. Staman, and W. E. Hamilton, Jr. Food preparing utensil. 3,131,651, 5-5-64, Cl. 107-1.
- Kelp, Fritz K., to C. Aug. Schmidt Söhne G.m.b.H. High pressure pre-heater for feed water. 3,156,296, 11-10-64, Cl. 165-74.
- Kelsall, Denis F., and J. A. Holmes. Hydro-cyclones. 3,130,157, 4-21-64, Cl. 210-512.
- Kelsey-Hayes Co.: See—
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- Ayers, David T., Jr. 3,128,876.
- Ayers, David T., Jr. 3,143,930.
- Ayers, David T., Jr. 3,146,679.
- Ayers, David T., Jr. 3,151,532.
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- Ayers, David T., Jr. 3,159,975.
- Birge, William T. 3,126,984.
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- Stelzer, William. 3,143,125.
- Stelzer, William. 3,143,860.
- Stelzer, William. 3,143,926.
- Stelzer, William. 3,147,042.
- Stelzer, William. 3,147,045.
- Stelzer, William. 3,147,046.
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- Stelzer, William. 3,159,424.
- Stelzer, William. 3,163,473.
- Stelzer, William, and Hill. 3,159,729.
- Swift, Harvey C. 3,118,518.
- Swift, Harvey C. 3,118,519.
- Swift, Harvey C. 3,126,074.
- Swift, Harvey C. 3,128,847-9.
- Swift, Harvey C. 3,131,787.
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- Kelsey, Roy A. Wire fence stretching clamp. 3,146,993, 9-1-64, Cl. 254-83.
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- Kelso, Robert G., R. D. Eppley, and G. H. Potter, to Union Carbide Corp. Stain resistant vinyl chloride polymer compositions containing (tetrahydropyran-2-methyl) phthalate or mixed tetrahydropyran-2-methyl alkoxyalkyl phthalate plasticizer. 3,158,585, 11-24-64, Cl. 260-30.4.
- Kelstrom, Donald G., and R. C. Andersen, deceased (by J. K. Peterson, administratrix), to Flexonics Corp. Laminated tubing. 3,135,296, 6-2-64, Cl. 138-122.
- Kelton, Frank A. Battery terminal clamp. 3,126,245, 3-24-64, Cl. 339-226.
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- Kelvin & Hughes Ltd.: See—
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- Kemenczky, Miklos. 3,157,992.
- Kemenczky, Miklos, to Kemenczky Establishment. Flow regulating device for jet propulsion engine. 3,157,991, 11-24-64, Cl. 60-35.6.
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- Kemmer, John P., to Litton Industries, Inc. Means and techniques for measuring pressures. 3,161,060, 12-15-64, Cl. 73-398.
- Kemmer, John P., and R. E. Scott, to Litton Systems, Inc. Error correction circuit for discontinuous functions. 3,132,244, 5-5-64, Cl. 235-151.
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- Kemmler, Sigmund, to Württembergische Spindelfabrik G.m.b.H. Spindle driving mechanism. 3,152,434, 10-13-64, Cl. 57-105.
- Kemp, Alton L., to The Cleveland Trust Co. (Trustee). Apparatus including a reciprocable pin sensing member for use in detecting pinfall in a bowling game. 3,158,371, 11-24-64, Cl. 273-54.

- Kemp, Charles R.: See—
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- Kidd, Marshall C., to Radio Corp. of America. Simplified two-channel multiplex system. Re. 25,699, 12-15-64, Cl. 179-15.
- Kidd, Robert C., to Mississippi Valley Structural Steel Co. Automatic structural bar punching machine. 3,134,284, 5-26-64, Cl. 83-413.
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- Kidwell, Robert L., and D. E. Litherland, to The Garrett Corp. Repetitive high current semiconductor switch. 3,146,356, 8-25-64, Cl. 307-88.5.
- Kiefer, Adolph, & Co.: See—
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- Kieffer, George A., to Paper Mate Mfg. Co. Box construction. 3,136,473, 6-9-64, Cl. 229-34.
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- Kiel, Othar M., to Jersey Production Research Co. Rotary drilling bit. 3,126,973, 3-31-64, Cl. 175-378.
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- Kiesel, George W., and E. M. Wegh, to General Electric Co. Multipole circuit breaker with three part insulating casing. 3,143,627, 8-4-64, Cl. 200-168.
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- Kless, James A., Jr. Apparatus for recapping shell primers. 3,124,994, 3-17-64, Cl. 86-36.
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- Kliff, Vernon G., to Celanese Corp. Device to combine separate signals utilizing synchronized switching means. 3,117,239.
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- Kikuyama, Tokuji. Automatic headlight control. 3,146,374, 8-25-64, Cl. 315-83.
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- Kilby, Jack S., to Texas Instruments Inc. Miniature semiconductor network diode and gate. 3,138,721, 6-23-64, Cl. 307-88.5.
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- Kile, Otho, and N. L. Wright, to R. R. Donnelley & Sons Co. Magazine trimming device. 3,122,041, 2-25-64, Cl. 83-155.
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- Kilgore, Clarence B., and E. G. Nasser, to Tenex Corp. Process of and apparatus for recovering condensables from a gas stream. 3,121,002, 2-11-64, Cl. 65-33.
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- Kilgore, Woodson B., to Firwood Mfg. Co. Fall safe valve for tire chuck on post-inflation machine. 3,128,807, 4-14-64, Cl. 144-288.
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- Killian, Joseph J., to E. I. du Pont de Nemours and Co. Melt spinning process. 3,118,012, 1-14-64, Cl. 264-176.
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- Kille, Leonard A., and R. L. Norton, to Polaroid Corp. Radio transmitter for use with flash photography. 3,153,195, 10-13-64, Cl. 325-102.
- Killeen, Thomas J., to Continental Can Co., Inc. Packaging device. 3,152,430, 10-13-64, Cl. 53-255.
- Killian, Henry R., to Henry Pratt Co. Molded in place rubber seat butterfly valve. 3,122,353, 2-25-64, Cl. 251-306.
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- Kilmer, Earl E., to United States of America. Navy. Gasless igniter composition. 3,150,020, 9-22-64, Cl. 149-37.
- Kilmer, Earl E., to United States of America. Navy. Explosive means for cutting an electric cable. 3,161,131, 12-15-64, Cl. 102-24.
- Kilner, George E.: See—
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- Kilner, George E., and J. Perrelli, to Perrelli Freestone Machine, Inc. Freestone pitter. 3,141,483, 7-21-64, Cl. 146-28.
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- Kim, Chang S., to General Electric Co. Self-oscillating tunnel diode frequency converters. 3,131,353, 4-28-64, Cl. 325-449.
- Kim, Charles W., E. H. Shattuck, and P. W. Langway, to Joseph Bancraft & Sons Co. Method and apparatus for making limited stretch bulked yarn. 3,132,462, 5-12-64, Cl. 57-34.
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- Kimball, George R.: See—
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- Kimball, Oliver P., R. J. Herbold, and W. E. Buck. Corneal profilometer. 3,141,396, 7-21-64, Cl. 95-11.
- Kimball, Rollo D., to Technic Research Corp. Safety container. 3,129,834, 4-21-64, Cl. 215-9.
- Kimball, Stanley M. Concrete wall form. 3,154,833, 11-3-64, Cl. 25-131.
- Kimbel, Willis L. Launching device for aeronautical toys. 3,119,584, 1-28-64, Cl. 244-155.
- Kimbell, Charles L., to Independent Exploration Co. Method and apparatus for monitoring the time accuracy of recording devices. 3,150,348, 9-22-64, Cl. 340-15.5.
- Kimbell, Charles L., to Independent Exploration Co. Analog computer for use in seismic exploration. 3,163,845, 12-29-64, Cl. 340-15.5.
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- Kimberley, John A., to Curtiss-Wright Corp. Fuel injection systems for rotary combustion engines. 3,126,876, 3-31-64, Cl. 123-8.
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- Kimberly, Wilmer H., Jr., to Lockheed Aircraft Corp. Speed control for magnetic clutch. 3,157,807, 11-17-64, Cl. 310-95.
- Kimble, Donal G., to Minnesota Mining and Mfg. Co. Thermoprinting by pre-heating original image. 3,131,302, 4-28-64, Cl. 250-65.
- Kimble, Donal G., C. O. McMaster, and B. W. Neher, to Minnesota Mining & Mfg. Co. Electrophotography. 3,138,458, 6-23-64, Cl. 96-1.
- Kimble, Harvey S.: See—
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- Kimble, Harvey S., D. E. Griffin, and J. J. Moon, to Phillips Petroleum Co. Decoding of cracking furnace effluent. 3,132,011, 5-5-64, Cl. 35-40.
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- Kime, Frederick W., to The Marconi Co. Ltd. Pulsed radar systems. 3,149,331, 9-15-64, Cl. 343-17.1.
- Kimes, Leland W., and G. C. Ballatoring accessory for golf carts or the like. 3,119,533, 1-28-64, Cl. 224-29.
- Kimm, Ewald J., to United Aircraft Products, Inc. By-pass control valve. 3,160,346, 12-8-64, Cl. 236-12.
- Kimmel, Ellsworth E., to Koppers Co., Inc. Rodent repellent polyethylene. 3,132,992, 5-12-64, Cl. 167-46.
- Kimmel, Irvine, and A. H. Frey, to The Endure A Lifetime Products, Inc. Prefabricated building structure. 3,125,194, 3-17-64, Cl. 189-41.
- Kimmel, Merl J., and H. E. Thompson, to The Ohio Foundry & Mfg. Co. Pilot shield for gas heater pilot burners. 3,122,195, 2-25-64, Cl. 158-7.
- Kimmel, Stanley, and M. L. Tepper. Easily stored cutting guide table. 3,151,641, 10-6-64, Cl. 143-6.
- Kimmell, Kenneth M., to J. M. Huber Corp. Valve coupler. 3,133,593, 5-19-64, Cl. 166-92.
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- Kincannon, Leo T., to Outboard Marine Corp. Shift control by manipulation of tiller handle. 3,145,688, 8-25-64, Cl. 115-18.
- Kincl, Fred A.: *See*—
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- Kincl, Fred A., to Syntex Corp. 6,7-dichloroestratrienes. 3,155,693, 11-3-64, Cl. 260-397.4.
- Kind, Dale, to Space Technology Laboratories, Inc. Lamp striking arrangement. 3,122,676, 2-25-64, Cl. 315-171.
- Kinder, Orville L., to Reliance Varnish Co., Inc. Bleaching composition containing hydrogen peroxide and method of bleaching colored wood. 3,144,297, 8-11-64, Cl. 8-111.
- Kinderman, Walter J., to Yarnall-Waring Co. Liquid level indicator. 3,132,516, 5-12-64, Cl. 73-299.
- Kinderman, Walter J., to Yarnall-Waring Co. Electrical pressure transducer. 3,153,210, 10-13-64, Cl. 336-30.
- Kindling, Paul K., to Goodyear Aerospace Corp. V-shaped configuration of tethered balloons. 3,151,825, 10-6-64, Cl. 244-33.
- Kindman, Joseph L., to Fulton Engineering Co., Inc. Machine for applying dry coatings to frozen confections and the like. 3,129,114, 4-14-64, Cl. 118-24.
- Kindorf, Orlan C. Pipe strap. 3,145,962, 8-25-64, Cl. 248-68.
- Kindseth, Harold V., D. L. Pommer, and C. R. Neseth, to Polycy, Inc. Machine for self-service dispensing of individual sections from a web of flexible material. 3,125,266, 3-17-64, Cl. 226-43.
- Kindseth, Harold V., D. L. Pommer, and C. R. Neseth, to Polycy, Inc. Vending machine for dispensing garment bags and similar articles. 3,152,740, 10-13-64, Cl. 226-11.
- Kindseth, Harold V., J. A. Johnson, and T. B. Ludlow, to Bemis Bro. Bag Co. Method of making molding forms. 3,161,705, 12-15-64, Cl. 264-92.
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- King, Arthur S. Flake ice making machine. 3,159,986, 12-8-64, Cl. 62-354.
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- King, Charles E. Animal retriever. 3,125,992, 3-24-64, Cl. 119-154.
- King, Charles H. Receptacle cover latch. 3,158,393, 11-24-64, Cl. 292-288.
- King, Clyde O. Fish lure. 3,117,389, 1-14-64, Cl. 43-35.
- King, Clyde O. Dual flush valve packaging. 3,137,867, 6-23-64, Cl. 4-57.
- King, David W., Jr., and F. L. Maltby, to Westronics, Inc. Multichannel printing recorder apparatus. 3,148,014, 9-8-64, Cl. 346-32.
- King, Don R., to Precise Products Corp. Drilling machine with a fluid pressure feed motor. 3,145,588, 8-25-64, Cl. 77-33.5.
- King, Donald A., 1/2 to Straza Industries, Inc. Two-stroke internal combustion engine. 3,131,680, 5-5-64, Cl. 123-74.
- King, Donald F., and B. Davies, to Harbison-Walker Refractories Co. High temperature refractory. 3,141,784, 7-21-64, Cl. 106-58.
- King, Donald M. Chains for use in conveyor systems. 3,128,593, 4-14-64, Cl. 59-35.
- King, Duncan E., and J. A. McNeilly, to Arthur H. Thomas Co. Automatic controlled volume liquid delivery assembly. 3,119,524, 1-28-64, Cl. 222-47.
- King, Edward G., 1/2 to J. Wyniger. Insulated carrying case for heated frozen food dinners and the like. Re. 23,530, 3-3-64, Cl. 206-4.
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- King, Ellis G., and C. Adolphson, to Georgia-Pacific Corp. Acid polymerization of spent sulfite liquor derived solids, polymerized reaction products formed thereby, and compositions utilizing same. 3,138,555, 6-23-64, Cl. 252-8.5.
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- King, Ferdinand P. Pit plow with friction drive. 3,138,209, 6-23-64, Cl. 172-105.
- King, Floyd J., and R. L. Hess, to Westinghouse Electric Corp. Electrical apparatus. 3,160,701, 12-8-64, Cl. 174-18.
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- King, George W., W. E. Sallstrom, and J. L. Roy, to General Precision, Inc. Direct view storage tube erasure circuit. 3,124,717, 3-10-64, Cl. 315-14.
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- King, Henry L., to Monsanto Chemical Co. Preparation of isophthalonitriles and terephthalonitriles. 3,131,209, 4-28-64, Cl. 260-465.
- King, Harold G. C., to United States of America, Agriculture. Caffeoyl glycerides. 3,153,659, 10-20-64, Cl. 260-410.8.
- King, Howard G., and S. R. Pitkin, to International Standard Electric Corp. Modulators for carrier communication systems. 3,118,117, 1-14-64, Cl. 332-22.
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- King, James F., to Massey-Ferguson Inc. Excavating and loading attachment for tractors. 3,134,493, 5-26-64, Cl. 214-140.
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- King, James L., to Acton Laboratories, Inc. Adjustable cam. 3,128,638, 4-14-64, Cl. 74-568.
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- King, John H., Jr., to Ethicon, Inc. Surgical suture. 3,152,591, 10-13-64, Cl. 128-335.5.
- King, John J., to Sperry Rand Corp. Core memory address- ing. 3,149,314, 9-15-64, Cl. 340-174.
- King, John L.: *See*—
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- King, John P. Attachment for telephone mouthpiece. 3,148,243, 6-8-64, Cl. 179-185.
- King, Karl G., Sr., to No-Vak, Inc. Seal. 3,146,012, 8-25-64, Cl. 292-320.
- King, Kenneth L., to United Aircraft Corp. Ultrasonic distance scaling apparatus. 3,121,955, 2-25-64, Cl. 33-1.
- King, Kenneth L., to United Aircraft Corp. Calibrated radar altitude control which compensates for changes in ground reflectivity. 3,141,161, 7-14-64, Cl. 343-7.
- King, L. D., to United States of America, Atomic Energy Commission. Graphite bonding method. 3,122,424, 2-25-64, Cl. 29-195.
- King, Laurence F., and J. H. Norton, to Esso Research and Engineering Co. Wood preservative composition. 3,132,071, 5-5-64, Cl. 167-38.7.
- King, Leonard H.: *See*—
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- King, Loy E. Garment support assembly. 3,139,191, 6-30-64, Cl. 211-122.
- King, Noble T., to Monsanto Co. Yarn holding device. 3,154,932, 11-3-64, Cl. 66-145.
- King, Patricia W., and R. H. Spurrell, to Rolatape, Inc. Measuring wheel. 3,151,397, 10-6-64, Cl. 33-141.
- King, Paul F., to Xerox Corp. Controlled charging in xerographic copying apparatus. 3,122,634, 2-25-64, Cl. 250-49.5.
- King, Paul F., to Xerox Corp. High speed printing apparatus. 3,132,206, 5-5-64, Cl. 178-15.
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- King, Ralph E., to General Electric Co. Forced air cooled household refrigerator including removable unitary refrigerating means. 3,116,614, 1-7-64, Cl. 62-283.
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- King, Robert Q., to Union Tank Car Co. Pressure control in storage tanks. 3,124,937, 3-17-64, Cl. 62-54.
- King, Robert W.: *See*—
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- King, Robert W., R. K. Mitchell, and W. W. Vogelhuber, to The Battelle Development Corp. Air supply and control system for free-piston engine. 3,159,149, 12-1-64, Cl. 123-46.
- King, Robert W., Jr.: *See*—
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- King, Robert W., Jr., and C. H. Doersam, Jr., to Sperry Rand Corp. Recirculating binary data rate converter. 3,122,726, 2-25-64, Cl. 340-174.1.
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- King, Ronald D. Farrowing stall. 3,125,988, 3-24-64, Cl. 119-20.
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- King, Thomas B., to Light Metals Corp. Metallic holder. 3,137,954, 6-23-64, Cl. 40-10.
- King, Wilfred J. Combination incinerator and draft control apparatus. 3,134,345, 5-26-64, Cl. 110-100.
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- King, William R. Condensing units. 3,126,877, 3-31-64, Cl. 123-41.08.
- King, William R., to Honeywell Inc. Photographic projector. 3,151,523, 10-6-64, Cl. 88-28.
- King, William R., to Kaiser Aluminum & Chemical Corp. Method of recovering lithium values. 3,151,934, 10-6-64, Cl. 23-25.
- King, William S. Fishing reel mount with line anchoring means. 3,155,340, 11-3-64, Cl. 242-84.2.
- Kinghorn, Mark D., and H. K. Knutsen, to Union Tank Car Co. Expansion roof leveler. 3,137,548, 6-16-64, Cl. 48-176.
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- Kingsbury, Franklin L., to National Lead Co. Method for producing improved titanium dioxide pigments. 3,147,130, 9-1-64, Cl. 106-300.
- Kingsbury, Franklin L., to National Lead Co. Method for treating titanium dioxide pigments. 3,147,131, 9-1-64, Cl. 106-300.
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- Kingsbury Machine Works, Inc.: *See*—
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- Kingsley, Henry A., and F. A. Cleland, to Shell Oil Co. Ethylene oxide production by controlled oxidation of ethylene in the presence of methane. 3,119,837, 1-28-64, Cl. 260-348.5.
- Kingsley, Lewis A. Fixture and guide means for a roll-leaf hat stamping machine. 3,135,198, 6-2-64, Cl. 107-407.
- Kingsley, Wayne H., and D. S. Monroe, to Sylvania Electric Products Inc. Process of manufacturing insulated heater wire and article. 3,161,540, 12-15-64, Cl. 117-217.
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- Kinkaid, Robert J., to AMP Inc. Electrical connector and connection. 3,120,990, 2-11-64, Cl. 339-259.
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- Kinnel, Robin B., and E. F. Schoenewaldt, to Merck & Co., Inc. Process for the simultaneous cleaving and acylation of alkanolic acid nitrones. 3,154,578, 10-27-64, Cl. 260-534.
- Kinney, Alfred W., to American Can Co. Packaging method and apparatus. 3,119,213, 1-28-64, Cl. 53-26.
- Kinney, Alfred W., to American Can Co. Packaging handling apparatus. 3,125,205, 3-17-64, Cl. 198-21.
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- Kinney, Selwyn P., to S. P. Kinney Engineers, Inc. Self-cleaning rotary strainer. 3,140,995, 7-14-64, Cl. 210-393.
- Kinney, Theodore S. Packaged tank heater with pivoted control assembly. 3,150,251, 9-22-64, Cl. 219-23.
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- Kinross, Rupert I., to Communications Patents Ltd. Metering systems. 3,119,558, 1-28-64, Cl. 235-132.
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- Kinsler, Charles F., and W. Lach, to Western Electric Co., Inc. Article holding and moving device. 3,127,161, 3-31-64, Cl. 269-56.
- Kinsler, Charles F., and W. Lach, to Western Electric Co., Inc. Percussive welding apparatus. 3,146,334, 8-25-64, Cl. 219-95.
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- Kinsley, Claude J., and W. J. Volke, to General Motors Corp. Unbalance measuring apparatus. 3,130,587, 4-28-64, Cl. 73-462.
- Kinsey, Eugene E., R. E. Brandes, W. R. Evans, and G. H. Whitfield, to North American Aviation, Inc. Electromagnetic bearing. 3,155,437, 11-3-64, Cl. 308-10.
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- Kiper, Gerd, to Agfa Aktiengesellschaft. Structure for operating camera shutters. 3,139,806, 7-7-64, Cl. 95-63.
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- Kirchhof, Werner, W. Franke, and W. Stumpf, to Chemische Werke Huls Aktiengesellschaft. Process for the production of unsaturated alcohols from epoxides. 3,138,642, 6-23-64, Cl. 260-617.
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- Kirkpatrick, Willard H., V. L. Seale, and A. W. Church, to Nalco Chemical Co. Demulsification of crude oil-in-water emulsions and chemicals useful therein. 3,150,102, 9-22-64, Cl. 252-344.
- Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. N-substituted polyalkylene polyoxamides having 2-hydroxyethyl and mono-secondary hydroxy hydrocarbon substituents. 3,152,188, 10-6-64, Cl. 260-584.
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- Kirsch, Jerry, and E. J. Tito. Shock-absorbing motion-retarding pallet. 3,119,357, 1-28-64, Cl. 108-51.
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- Kirschner, Leon. Composite roofing. 3,152,035, 10-6-64, Cl. 161-146.

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- Kirschning, Hans J., to Klockner-Werke AG. Method and apparatus for coating base metal with facing metal. 3,139,505, 6-30-64, Cl. 219-73.
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- Kirshenbaum, Isidor: See—
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- Kirstahler, Alfred: See—
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- Kirsten, Paul A. Cutter head for cylinder type flakers. 3,162,222, 12-22-64, Cl. 144-172.
- Kirsten, Rolf, and H. Wurst, to Hoffler & Karg. Former for the production of tubing. 3,155,018, 11-3-64, Cl. 93-82.
- Kirsten, Walter B. Christmas tree light bulb mounting means. 3,120,351, 2-4-64, Cl. 240-10.
- Kirtland, William. Cotton pick-up tire. 3,143,841, 8-11-64, Cl. 56-28.
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- Kischio, Werner: See—
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- Kise, Joseph G.: See—
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- Kiselev, Mikhail M., and P. A. Podzikun, to Dmitrovsky Excavatory Zavod. Multi-bucket trench excavator with chain side cutters. 3,146,538, 9-1-64, Cl. 37-80.
- Kiser, Vernon R. Portable camp stove. 3,124,057, 3-10-64, Cl. 99-340.
- Kish, Arthur S.: See—
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- Kish, Michael, Jr., to Atlantic Products Corp. Golf bag construction. 3,147,786, 9-8-64, Cl. 150-1.5.
- Kish, Michael, Jr., to Atlantic Products Corp. Carrying bag construction. 3,158,238, 11-24-64, Cl. 190-48.
- Kish, Steven P. Method of making plastic fixtures. 3,161,555, 12-15-64, Cl. 156-245.
- Kishibay, Charles O.: See—
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- Kishida, Mitsuhiko, to Mitsubishi Denki Kabushiki Kaisha. Method of making a condenser-type terminal bushing. 3,146,518, 9-1-64, Cl. 29-155.8.
- Kishinsky, Lloyd S., to Republic Aviation Corp. Test device for signal-radiating and receiving equipment. 3,149,284, 9-15-64, Cl. 325-67.
- Kishize, Shigeru: See—
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- Kisker, William R. Vacuum switch. 3,141,056, 7-14-64, Cl. 84-1.03.
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- Kisorec, Adrian, to Hico Corp. Adjustable framework members. 3,124,223, 3-10-64, Cl. 189-37.
- Klassinger, Heinrich, F. Arzt, and A. Keck, to Vdo Tachometer Werke Adolf Schindling G.m.b.H., FA. Parking-meter. 3,126,995, 3-31-64, Cl. 194-19.
- Kissler, Wolfgang, to Vereinigte Glanzstoff-Fabriken AG. Process and apparatus for crimping a multi-filament yarn. 3,153,891, 10-27-64, Cl. 57-34.
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- Kistler, Walter P.: See—
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- Kistner, Harold J., to International Business Machines Corp. Stacking apparatus. 3,148,879, 9-15-64, Cl. 271-87.
- Kitagawa, Hiroshi, M. Yonago, and M. Fujita, to Kabushiki Kaisha Hitachi Selsakusho. Alkaline dry cell. 3,154,435, 10-27-64, Cl. 136-137.
- Kitabonoki, Keizo, and M. Kakehi. Novel bicyclo(2,2,2)octane compounds. 3,126,395, 3-24-64, Cl. 260-319.
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- Kitasaki, Kiyoshi: See—
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- Kitasaki, Kiyoshi, G. W. Willcockson, I. S. Bengelsdorf, and W. G. Woods, to United States Borax & Chemical Corp. Boron-containing Diels-Alder adduct compounds. 3,135,781, 6-2-64, Cl. 260-462.
- Kitasaki, Kiyoshi, and G. W. Willcockson, to United States Borax & Chemical Corp. Di-[bis(dialkylamino)boryl]benzenes. 3,140,313, 7-7-64, Cl. 260-551.
- Kitawaki, Rokuro: See—
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- Kitchen, Donald M. Connector for cement radius forms. 3,117,358, 1-14-64, Cl. 25-118.
- Kitchen, Leland G., to Phillips Petroleum Co. Automatic controls for the liquefaction and separation of gases. 3,148,966, 9-15-64, Cl. 62-21.
- Kitchingham, John D., Jr. Safety stirrup. 3,157,977, 11-24-64, Cl. 54-49.
- Kiteley, George, to Fosco International Ltd. Dressing of moulds for castings and ingots. 3,131,443, 5-5-64, Cl. 22-193.
- Kito, Ryochiro, T. Inomata, and N. Kanetake, to Kabushiki Kaisha Kito Selsakusho. Element link for link chains. 3,124,929, 3-17-64, Cl. 59-90.
- Kitrosser, Samuel, to Avant Inc. Camera. 3,128,685, 4-14-64, Cl. 95-18.
- Kitscha, Hector: See—
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- Kitselman, Harry L., to Indiana Steel & Wire Co., Inc. Terminal housing. 3,149,198, 9-15-64, Cl. 174-52.
- Kitson, Robert B., to E. I. du Pont de Nemours and Co. Process for preparing printing elements. 3,129,088, 4-14-64, Cl. 96-35.
- Kitson, Robert E., and C. E. Reese, to E. I. du Pont de Nemours and Co. Staple fiber blend. 3,157,021, 11-17-64, Cl. 57-140.
- Kittel, Hermann, W. Kohnmann, and B. Kasper, to Klenzle Apparate G.m.b.H. Zero suppression means for punch mechanism controlled by pin carriage position. 3,149,779, 9-22-64, Cl. 235-60.25.
- Kittel, Walter. Contacting apparatus for rectifying and contacting columns. 3,156,746, 11-10-64, Cl. 261-114.
- Kittelson, LeRoy O., to Engineering Development Corp. Valves for internal combustion engines. 3,147,747, 9-8-64, Cl. 123-188.
- Kittelson, Mathias H. Impact absorbing seat belt. 3,132,898, 5-12-64, Cl. 297-386.
- Kittelson, Mathias H. Control apparatus. 3,144,220, 8-11-64, Cl. 244-42.
- Kitter, Volda, to Voldale, Inc. Process for purifying aqueous media. 3,136,716, 6-9-64, Cl. 210-462.
- Kitterman, Donald M. Decoration dispenser and the method of making, filling, and dispensing from the same. 3,157,312, 11-17-64, Cl. 222-1.
- Kitterman, Gary L. Container and closure therefor. 3,125,237, 3-17-64, Cl. 215-43.
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- Kittila, Richard S., to E. I. du Pont de Nemours and Co. Complex of phenylureas and chlorobenzoic acids and use as herbicides. 3,125,431, 3-17-64, Cl. 71-2.6.
- Kittler, Milton J., to Holley Carburetor Co. Print hammer mechanism. 3,128,694, 4-14-64, Cl. 101-93.
- Kittler, Milton J., to Holley Carburetor Co. Fuel filter. 3,136,717, 6-9-64, Cl. 210-95.
- Kittler, Milton J., to Holley Carburetor Co. Print hammer mechanism. 3,139,820, 7-7-64, Cl. 101-93.
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- Kittrell, Richard L.: See—
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- Kivlighn, Herbert D., to Corning Glass Works. Method of making semicrystalline ceramic bodies and the composition thereof. 3,146,114, 8-25-64, Cl. 106-39.
- Kivisto, Lauri J.: See—
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- Kiwi, Walter, to R. H. Hood Co. Operator for microswitches. 3,144,537, 8-11-64, Cl. 200-153.
- Kiyasu, Zeniti, S. Amada, and T. Hayashi. High speed recording device. 3,116,983, 1-7-64, Cl. 346-107.

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- Klausen, Marvin D. 3,143,805.
- Kjell-Berger, Olof, and E. Grane, to Rockwood Aktiebolaget. Mineral wool. 3,154,465, 10-27-64, Cl. 161-169.
- Kjellman, Thomas K., and F. O. Watson, to The Bendix Corp. Humidity responsive device. 3,123,687, 3-3-64, Cl. 200-61.06.
- Kjonaas, Manley, to Sinclair Research, Inc. Detergent and anti-oxidant lubricant. 3,132,101, 5-5-64, Cl. 252-32.7.
- Kjonaas, Manley, to Sinclair Research, Inc. Oxidation resistant lubricant. 3,135,692, 6-2-64, Cl. 252-32.7.
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- Klaas, Ruth E. B.: See—
- Klaas, Donald S., and Klaas. 3,142,638.
- Klaasen, Gerald, to Chrysler Corp. Automobile roof mounting. 3,127,213, 3-31-64, Cl. 296-28.
- Kladko, Martin, and M. M. Lee, to General Aniline & Film Corp. Process for condensation reactions. 3,149,148, 9-15-64, Cl. 260-465.
- Klager, Karl: See—
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- Klahr, Carl N.: See—
- Held, Kalman M., and Klahr. 3,121,794.
- Klavovich, Eugene M., to Markline Electronic Products Inc. Extensible chassis slide. 3,133,768, 5-19-64, Cl. 308-3.6.
- Klammer, Alfred W. Fishing line unwinder. 3,156,065, 11-10-64, Cl. 43-43.13.
- Klapp, Paul, to Mechanical Handling Systems, Inc. Sub-flooring conveyor control system. 3,127,849, 4-7-64, Cl. 104-83.
- Klann, Paul A. Electric switching assembly useful as a key action for organs. 3,157,753, 11-17-64, Cl. 200-18.
- Klapdohr, Friedrich: See—
- Isenberg, Gustav, and Klapdohr. 3,157,065.
- Klapes, Michael C., and E. G. Cleveland, to Delta Engineering Corp. Apparatus for conveying and filling containers. 3,129,544, 4-21-64, Cl. 53-64.
- Klasing, Charles L., Jr., to Klasing Hand Brake Co. Load control device for a railway freight car or the like. 3,147,716, 9-8-64, Cl. 105-369.
- Klasing, Charles L., Jr., to Klasing Hand Brake Co. Articulated tie-down load control bracket. 3,154,026, 10-27-64, Cl. 105-369.
- Klasing, Charles L., Jr., and W. H. Sale, to Klasing Hand Brake Co. Journal box lid with sealing and venting means. 3,144,281, 8-11-64, Cl. 308-50.
- Klasing, Charles L., Jr. 3,147,716.
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- Klass, Donald L., to The Pure Oil Co. Preparation of quaternary ammonium betaine salts. 3,131,189, 4-28-64, Cl. 260-279.
- Klass, Donald L., to The Pure Oil Co. Apparatus and method for separating particles. 3,133,876, 5-19-64, Cl. 209-1.
- Klass, Donald L., to The Pure Oil Co. Motion transmitting apparatus. 3,142,978, 8-4-64, Cl. 73-12.
- Klass, Donald L., to The Pure Oil Co. Process for the production of carbonyl compounds. 3,147,203, 9-1-64, Cl. 204-80.
- Klass, Donald L., and V. Brozowski, to The Pure Oil Co. Reaction products of nitriles and sulfur trioxide. 3,143,552, 8-4-64, Cl. 260-327.
- Klass, Donald L., and J. E. King, to The Pure Oil Co. Process for preparing resinous compositions from alkylene sulfates and alkylene oxides. 3,154,526, 10-27-64, Cl. 260-79.3.
- Klass, Donald L., and T. W. Martinek, to The Pure Oil Co. Reaction products of alcohols with carbonyl sulfates. 3,158,639, 11-24-64, Cl. 260-456.
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- Klatchko, George A., to The Budd Co. Ultrasonic scanning head. 3,121,326, 2-18-64, Cl. 73-67.7.
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- Tripp, Joseph V., and Klaube. 3,151,838.
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- Klaue, Erich: See—
- Freytag, Helmut, Klaue, Wilms, Roos, and George. 3,142,705.
- Hartung, Sigurd, Klaue, and Schwarz. 3,118,922.
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- Urban, George E., and Klaus. 3,147,870.
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- Klaue, Franz. Centrifugal pumps. 3,155,043, 11-3-64, Cl. 103-87.
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- Klawitter, Delmar C., to Le Tourneau-Westinghouse Co. Tension device. 3,127,151, 3-31-64, Cl. 254-164.
- Klebe, Johann F., to General Electric Co. Composition for use as deformable medium and apparatus using the same. 3,125,636, 3-17-64, Cl. 178-7.5.
- Klebe, Johann F., to General Electric Co. Composition and apparatus used in the same. 3,125,637, 3-17-64, Cl. 178-7.5.
- Kleber, Colombes: See—
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- Kleber, Edward J., Jr., and E. R. Majka, to Union Carbide Corp. Bandsaw blade. 3,154,839, 11-3-64, Cl. 29-95.
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- Kleemann, Heinrich: See—
- Storj, Klaus, and Kleemann. 3,116,970.
- Klees, George N., to North American Aviation, Inc. Transistor alternating-current voltage regulator. 3,153,187, 10-13-64, Cl. 323-22.
- Kleesattel, Claus, to Cavitron Ultrasonics Inc. Feedback compensated magnetostriuctive vibration device. 3,151,284, 9-29-64, Cl. 318-118.
- Kleesattel, Claus. Resonant sensing devices. 3,153,338, 10-20-64, Cl. 73-67.1.
- Kleespies, Ernst K.: See—
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- Kleffman, Mildred. Furniture-ensemble retaining device. 3,162,484, 12-22-64, Cl. 297-248.
- Kleffisch, Rudolf. Annealing box cover. 3,142,483, 7-28-64, Cl. 263-49.
- Kleiman, Abraham. Material handling apparatus. 3,123,64, Cl. 263-49.
- Kleiman, Gerald, to Process Equipment & Automation, Inc. Multiple station transfer unit. 3,158,268, 11-24-64, Cl. 214-1.
- Klein, Alexander, 1/2 each to C. H. Best, and L. A. Turzille. Rod-ball mill. 3,124,314, 3-10-64, Cl. 241-172.
- Klein, Alexander, to Chemically Prestressed Concrete Corp. Calcium aluminosulfate and expansive cements containing same. 3,155,526, 11-3-64, Cl. 106-89.
- Klein, Alfred W.: See—
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- Klein, Anthony. Electric meter conversion brackets. 3,136,925, 6-9-64, Cl. 317-107.
- Klein, Arthur F., to American Cyanamid Co. 4-hydroxyalkyl amino-1,8-naphthalic acid imide dye salts of oil-solubilizing quaternary ammonium halides. 3,147,264, 9-1-64, Cl. 260-281.
- Klein, Donald E., to Garlock Inc. Fluid-cooled rod-packing assembly. 3,147,982, 9-8-64, Cl. 277-16.
- Klein, Edwin A., to Allied Chemical Corp. Process for bonding polyethylene to non-porous surfaces and laminated polyethylene product. 3,143,364, 8-4-64, Cl. 285-55.
- Klein, Elias, to Courtaulds, Ltd. Control of finish on fibrous material by the use of a fluorescing substance. 3,118,060, 1-14-64, Cl. 250-71.
- Klein, Eugene L., to Phillips Petroleum Co. Range control of self propelled missile. 3,142,959, 8-4-64, Cl. 60-35.6.
- Klein, Frank F., Jr. Bicycle lock. 3,136,149, 6-9-64, Cl. 70-187.
- Klein, George I., L. B. Post, and R. E. Newby, to Stauffer Chemical Co. Coated P_2O_5 and its method of manufacture. 3,136,603, 6-9-64, Cl. 23-165.
- Klein, George J., to The De Havilland Aircraft of Canada Ltd. Collapsible extensible apparatus. 3,144,215, 8-11-64, Cl. 242-54.
- Klein, Heinz-Gunter: See—
- Zirnglebl, Eberhard, and Klein. 3,140,188.
- Klein, Howard C.: See—
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- Reisner, David B., Gister, and Klein. 3,124,588.
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- Klein, John J., to General Motors Corp. Oil burner assembly. 3,124,193, 3-10-64, Cl. 158-28.
- Klein, Joseph L., A. R. Kaufmann, and P. Loewenstein, to United States of America, Atomic Energy Commission. Process and product of metallurgically joining zirconium to ferrous metal. 3,140,108, 7-7-64, Cl. 287-119.
- Klein, Joseph J., and J. R. Durgeloh, to Fiber Bond Corp. Gas filter. 3,154,393, 10-27-64, Cl. 55-501.
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- Gauthier, George E., Klein, and Powell. 3,118,036.
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- Klein, Keith W., and D. B. Powell, to General Electric Co. Electric circuit breaker with improved trip means. 3,162,739, 12-22-64, Cl. 200-88.
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- Klein, Leonard: See—
- Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,125,439.
- Klein, Louis F. Teeth cleaning and treating device. 3,134,127, 5-26-64, Cl. 15-321.
- Klein, Louis H., 1/2 each to M. Falk and C. Booth. Retractable blast deflector and acoustic barrier. 3,141,039, 7-21-64, Cl. 244-114.
- Klein, Markus. End-rest assembly. 3,160,050, 12-8-64, Cl. 84-327.
- Klein, Martin L.: See—
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- Klein, Martin L., and J. S. Sutton, to North American Aviation, Inc. Magnetic recording device. 3,125,759, 3-17-64, Cl. 346-74.
- Klein, Martin L., and A. Goudey, to Dynair Electronics, Inc. Moisture measuring system. 3,146,617, 9-1-64, Cl. 73-73.
- Klein, Max, to Borg-Warner Corp. Polymerization reactor. 3,140,917, 7-14-64, Cl. 23-252.
- Klein, Nathan, to United States of America, Army. Rare earth shield. 3,123,576, 3-3-64, Cl. 252-478.
- Klein, Norman E., to Deering Milliken Research Corp. Drafting and scavenging apparatus. 3,122,794, 3-3-64, Cl. 19-288.
- Klein, Norman E., to Deering Milliken Research Corp. Fiber handling drafting roll apparatus and method of use. 3,131,438, 5-5-64, Cl. 19-288.
- Klein, Richard F. Portable storage tank. 3,160,171, 12-8-64, Cl. 137-344.
- Klein, Siegfried, and J. Pottler, to Commissariat a l'Energie Atomique. Ion accelerators. 3,143,680, 8-4-64, Cl. 313-63.
- Klein, Walter, to Beckman Instruments, Inc. Immediate sequential access memory. 3,141,153, 7-14-64, Cl. 340-173.
- Klein, Walter A., and H. A. Lincoln, to The Dow Chemical Co. Method for dusting tubular film. 3,153,599, 10-20-64, Cl. 117-18.
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- Klein, William G., and A. K. Swanson, to Fabric Research Laboratories, Inc. Fabric flaw detector. 3,116,621, 1-7-64, Cl. 66-166.
- Klein, Wolfgang, to International Standard Electric Corp. Paging system. 3,137,771, 6-16-64, Cl. 179-18.
- Kleinberg, Joseph S., and D. R. MacCollum. Building lead-in connection for a pipe. 3,125,358, 3-17-64, Cl. 285-55.
- Kleindienst, Herbert, to Daimler-Benz Aktiengesellschaft. Connecting rod construction. 3,149,503, 9-22-64, Cl. 74-579.
- Kleine, Werner K. M., to G. Heller. Guiding device for borer. 3,120,767, 2-11-64, Cl. 77-62.
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- Koch, Charles R., to Crawford Mfg. Co., Inc. Adjustable footrest or hassock. 3,163,468, 12-29-64, Cl. 297-439.
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- Kochanowski, George A., to Kinkaid Industries Inc. Valve rod assembly. 3,137,890, 6-23-64, Cl. 16-87.2.
- Kochar, Raj. Shaping and slotting machines. 3,146,677, 9-11-64, Cl. 90-40.
- Kocher, Erich J., to Vilter Mfg. Corp. Defrosting of refrigeration systems. 3,126,715, 3-31-64, Cl. 62-151.
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- Kochl, Jay K.: See—
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- Koci, Ludvik J.: See—
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- Kock, Winston E., to The Bendix Corp. Method and apparatus for obtaining directional locating and detecting characteristics with reduced antenna size. 3,154,778, 10-27-64, Cl. 343-5.
- Kocks, Friedrich. Charging device for smelting furnaces. 3,116,841, 1-7-64, Cl. 214-31.
- Kocks, Hubert, to Hamel Zwiirner- und Spinnereimaschinen G.m.b.H. Plural-spindle. 3,119,224, 1-28-64, Cl. 57-58.52.
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- Kodama, Yutaka, I. Saikawa, and M. Kanamori, to Toyama Kagaku Kogyo Kabushiki Kaisha. 3-acylamino-6-substituted-1,2,4-triazine compounds. 3,153,648, 10-20-64, Cl. 260-240.
- Kodama, Yutaka, I. Saikawa, T. Maeda, and A. Takai, to Toyama Kagaku Kogyo Kabushiki Kaisha. Process for producing 3-amino-6-substituted and 5,6-substituted 1,2,4-triazine compounds. 3,153,649, 10-20-64, Cl. 260-240.
- Kodama, Yutaka, I. Saikawa, and T. Maeda, to Toyama Kagaku Kogyo Kabushiki Kaisha. Substituted pyruvic acid esters and 3-amino-5-hydroxy-6-(substituted ethenyl)-1,2,4-triazines prepared therefrom. 3,159,624, 12-1-64, Cl. 260-240.
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- Kody, Joseph D., to Imperial-Eastman Corp. Rotationally adjustable fitting. 3,151,896, 10-6-64, Cl. 285-212.
- Koe, Billie K., to Chas. Pfizer & Co., Inc. Novel derivatives of 6-aminopenicillanic acid. 3,144,444, 8-11-64, Cl. 260-239.1.
- Koebel, Charles J., to Koebel Diamond Tool Co. Multiple point diamond tool. 3,154,064, 10-27-64, Cl. 125-39.
- Koebel Diamond Tool Co.: See—
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- Koehler, Karl. Foldable postal card. 3,141,549, 7-21-64, Cl. 206-42.
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- Koehler, Richard J., to Westinghouse Electric Corp. Inflated antenna. 3,125,758, 3-17-64, Cl. 343-872.
- Koehn, Helmut: See—
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- Koehn, Helmut L. J. La Plante, R. L. Shaner, and R. F. Stengel, to Union Carbide Corp. Process and apparatus for liquefying low-boiling gases. 3,144,316, 8-11-64, Cl. 62-9.
- Koehn, Wilbur R. Anesthetizing apparatus. 3,128,764, 4-14-64, Cl. 128-188.
- Koehn, William A., to Clary Corp. Printer. 3,139,818, 7-7-64, Cl. 101-93.
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- Koehring, Roland P., to General Motors Corp. Addition of elemental sulfur to ferrous powder to prevent galling during the briquetting operation. 3,132,021, 5-5-64, Cl. 75-5.
- Koel, Jan C., to Shell Oil Co. Tube furnace. 3,130,714, 4-28-64, Cl. 122-240.
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- Koeller, William N., to Huck Mfg. Co. Spacer applying tool. 3,162,938, 12-29-64, Cl. 29-227.
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- Koelsch, Lester M., to Beloit Corp. Pulp press. 3,126,818, 3-31-64, Cl. 100-112.
- Koen, Richard F. Prestressed shaft engaging unit. 3,127,202, 3-31-64, Cl. 287-52.
- Koenig, Arthur J. Optical measuring scope. 3,131,483, 5-5-64, Cl. 33-172.
- Koenig, Franz, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of glycolic acid nitrile. 3,141,033, 7-14-64, Cl. 260-465.6.
- Koenig, John, and B. Jaffe, to Clevite Corp. Ceramic capacitor dielectrics. 3,153,179, 10-13-64, Cl. 317-258.
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- Koenig, John E., G. J. Henning, and R. A. F. Dietz, to The Central States Can Operation. Removable tear strip closure. 3,136,469, 6-9-64, Cl. 229-5.8.
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- Koenig, Robert H., to Tapeswitch Corp. of America. Door edge switch means. 3,118,984, 1-21-64, Cl. 200-61.43.
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- Koepke, Fred W., Jr., and N. G. Zaleski, to Ajem Laboratories, Inc. Automated washing of machine parts. 3,124,144, 3-10-64, Cl. 134-43.
- Koepke, John P.: See—
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- Koerner, Harry E.: See—
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- Koert, Alvah C., to General Electric Co. Target electrode assembly. 3,153,559, 11-3-64, Cl. 313-68.
- Koessler, Walter R. Device for controlling incontinence. 3,147,754, 9-8-64, Cl. 128-346.
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- Koester, Charles J., and H. Osterberg, to American Optical Co. Interference microscope. 3,162,713, 12-22-64, Cl. 88-39.
- Koester, Gordon E., and J. H. Panny. Shearing device with shear blades having removable shearing inserts. 3,143,025, 8-4-64, Cl. 83-641.
- Koesterer, Martin G., and E. T. Fritzsche, to Wilmot Castle Co. Method of treating eggs. 3,136,641, 6-9-64, Cl. 99-161.
- Kofahl, David C., and C. E. Wakefield, Jr., to Richfield Oil Corp. Locating an offshore drilling platform. 3,138,932, 6-30-64, Cl. 61-46.5.
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- Koff, Arnold, to Hoffmann-La Roche Inc. Castor wax-amprotoprine-resin compositions. 3,138,525, 6-23-64, Cl. 167-55.
- Koff, Arnold, and P. F. Widmer, to Hoffmann-La Roche Inc. Vitamin-containing gelatin beads and the process of preparing them. 3,143,475, 8-4-64, Cl. 167-81.
- Koff, Bernard L., to General Electric Co. Lightweight axial flow rotor construction. 3,154,243, 10-27-64, Cl. 230-134.
- Koffler, Sol. Luggage. 3,126,076, 3-24-64, Cl. 190-43.
- Koffler, Sol. Luggage. 3,139,164, 6-30-64, Cl. 190-43.
- Koffsky, John M. Jr.: See—
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- Kofink, Siegfried, to Gerätebau-Eberspächer OHG. Gas turbine having adjustable nozzle flow means. 3,137,477, 6-16-64, Cl. 253-52.
- Kofink, Siegfried. Thermal power mechanism. 3,152,554, 10-13-64, Cl. 103-152.
- Kofink, Siegfried, L. Huber, E. Schubert, W. Mayer, and M. Munzenmaler, to J. Eberspächer. Turbine unit, in particular heating means with a vibration burner. 3,125,855, 3-24-64, Cl. 60-39.52.
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- Koftan, Dick J., to Link-Belt Co. Diesel pile hammer starting device. 3,161,184, 12-15-64, Cl. 123-46.
- Kogan, Henry W., and T. E. Noakes, to American Radiator & Standard Sanitary Corp. Heat motor actuated soap dispenser. 3,149,754, 9-22-64, Cl. 222-70.
- Kogan, Henry W., J. C. Budde, and A. J. Wisniewski, to American Radiator & Standard Sanitary Corp. Adjustable liquid dispenser. 3,162,335, 12-22-64, Cl. 222-212.
- Kogel, Wilhelm G., to Electrolux, Aktiebolaget. Absorption refrigeration system of the inert gas type. 3,159,009, 12-1-64, Cl. 62-110.
- Kogelnik, Herwig W., and W. W. Rlgrod, to Bell Telephone Laboratories, Inc. Optical maser with convex negative temperature medium extremities. 3,144,617, 8-11-64, Cl. 331-94.5.
- Kogen, James H.: See—
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- Koger, George W.: See—
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- Koh, Gunter H., to Auergesellschaft G.m.b.H. Canister with olfactory warner. 3,140,156, 7-7-64, Cl. 23-288.
- Kohan, Melvin I.: See—
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- Kohan, Melvin I., to E. I. du Pont de Nemours and Co. Process for the polymerization of caprolactam with acylating agents and ureas as co-activators. 3,138,574, 6-23-64, Cl. 260-78.
- Kohan, Melvin I., to E. I. du Pont de Nemours and Co. Anionic polymerization of lactams with dilactam ethers as cocatalysts. 3,141,006, 7-14-64, Cl. 260-78.

Kohan, Melvin I., to E. I. du Pont de Nemours and Co. Perhalogenated ketones as activators for the anionic polymerization of caprolactam. 3,154,525, 10-27-64, Cl. 260-78.

Kohen, Sheldon I., to Swingline Inc. Stapling machine. 3,144,653, 8-18-64, Cl. 1-3.

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Kohler, Charles F., to Hancock Telecontrol Corp. System for recording registered data. 3,158,429, 11-24-64, Cl. 346-52.

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Kohler, Fred, to American Machine & Foundry Co. Welding of multiwall tubing. 3,118,045, 1-14-64, Cl. 219-59.

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- Kopp, Anton: See—
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Corson, Ben B., and Heintzelman. 3,137,682.
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Kore, Harry, Jr. Adjustably extensible automatically retracting hanger for purses and similar articles. 3,182,832, 5-12-64, Cl. 248-307.
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Korlagin, Vsevolod B., to Lockheed Aircraft Corp. Aeroglide boat. 3,118,411, 1-21-64, Cl. 114-66.5.
Korli, Milo, to Bolkov-Entwicklungen Kommanditgesellschaft. Control device using gyroscope precession for measurement of displacement. 3,141,339, 7-21-64, Cl. 73-504.
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Korosh, Charles. Pedal-operated drum set. 3,125,921, 3-24-64, Cl. 84-422.
Korr, Abraham L. Vending machine with quickly removable dispensing unit. 3,135,425, 6-2-64, Cl. 221-282.

- Korsgren, Theodore Y., Jr., to Haydon Switch & Instrument, Inc. Electrical connector. 3,155,448, 11-3-64, Cl. 339-201.
- Kort, Roman, and B. E. Ruth, to Symons Mfg. Co. Tie rod and anchor bolt combination with external anchor point. 3,142,883, 8-4-64, Cl. 25-131.
- Korte, Alfred C., to ACF Industries Inc. Fuel pump. 3,163,354, 12-29-64, Cl. 230-172.
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- Korte, Friedrich W.A.G.K.: See—
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Falbe, Jürgen F., and Korte. 3,159,653.
- Korthaus, Helmut, and R. Wilke. Electromotive adjusting device. 3,161,074, 12-15-64, Cl. 74-424.8.
- Kortick, Morris, to Monarch Tool Co. Automatic ornament setting machine. 3,118,214, 1-21-64, Cl. 29-10.
- Kortick, Morris, to L. Yanoff. Semi-automatic ornament gluing machine. 3,140,972, 7-14-64, Cl. 156-566.
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- Kosak, John R., to E. I. du Pont de Nemours and Co. Process for the reduction of halo nitro aromatic compounds. 3,145,231, 8-18-64, Cl. 260-580.
- Kosar, Jaromir, to Keuffel & Esser Co. Diazotype reproduction materials. 3,157,503, 11-17-64, Cl. 96-49.
- Kosar, Peter, to Allen Laboratories, Inc. Apparatus for ventilating chambers in power washers and the like. 3,157,107, 11-17-64, Cl. 98-115.
- Koschopf, John, and S. Kernickl. Device for holding hooks in sewing machines. 3,151,585, 10-6-64, Cl. 112-107.
- Kosco, John C., to Stackpole Carbon Co. Electrical contact. 3,158,469, 11-24-64, Cl. 75-134.
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- Koshar, Robert J., and H. A. Brown, to Minnesota Mining and Mfg. Co. Quaternized halomethylamides. 3,147,065, 9-1-64, Cl. 8-162.
- Koshino, Seimitsu Kikui Kabushiki Kaisha: See—
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- Koshiyama, Hideo: See—
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- Koshoot, Henry F., 40% to T. J. Parker. Bubble-plate chamber stepped still and the process for using such a still for alcohol or petroleum purification. 3,151,042, 9-29-64, Cl. 202-40.
- Kosik, Joseph. Gate valve with particular seal means. 3,128,078, 4-7-64, Cl. 251-214.
- Kosik, Samuel J., Jr. Dispenser for rejuvenating wiper blades. 3,152,352, 1-13-64, Cl. 15-539.
- Koski, Eino A., and H. A. Wilmoth, to Kennecott Copper Corp. Rope-suspended, skid-mounted movable belt conveyor. 3,161,282, 12-15-64, Cl. 198-192.
- Koski, William L., and E. S. Swenson. Stomach pump apparatus. 3,142,298, 7-28-64, Cl. 128-276.
- Kosoff, Harold. Free piston engine. 3,118,434, 1-21-64, Cl. 123-46.
- Kosoff, Harold. Free piston engine system. 3,119,230, 1-28-64, Cl. 60-19.
- Kosoff, Harold. Free piston engine. 3,127,881, 4-7-64, Cl. 123-46.
- Kosoff, Harold. Mechanical apparatus. 3,129,878, 4-21-64, Cl. 230-56.
- Kosoff, Harold. Free piston engine. 3,157,165, 11-17-64, Cl. 123-46.
- Kosonocky, Walter F.: See—
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- Kosonocky, Walter F., and J. J. Amodei, to Radio Corp. of America. Electrical circuits. 3,156,816, 11-10-64, Cl. 235-172.
- Kosrow, Robert L., to Union Special Machine Co. Automatic control of sewing machine and accessory devices. 3,116,705, 1-7-64, Cl. 112-2.
- Kosrow, Robert L., to Union Special Machine Co. Method of lacing bundles of strands. 3,138,394, 6-23-64, Cl. 289-1.5.
- Kosrow, Robert L., to Union Special Machine Co. Strand lacing implement. 3,150,892, 9-29-64, Cl. 289-17.
- Koss, Darrell D. Punching and reinforcing machine. 3,132,063, 5-5-64, Cl. 156-513.
- Koss, William H., to McGill Mfg. Co., Inc. Sealed anti-friction bearing. 3,140,129, 7-7-64, Cl. 308-187.2.
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- Kossmann, Hans, to Victor Comptometer Corp. Ink supply means for recording devices. 3,149,904, 9-22-64, Cl. 346-140.
- Kost, Stephen J., to Formica Corp. Contact adhesive compositions. 3,144,428, 8-11-64, Cl. 260-43.
- Kosta, Charles. Retractable holder for chalk, crayon, erasers, and small writing and cutting instruments. 3,124,106, 3-10-64, Cl. 120-1.
- Koster, Claus, to Robert Bosch Gesellschaft mit beschränkter Haftung. Fuel injection pump for internal combustion engines. 3,161,138, 12-15-64, Cl. 103-41.
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- Köster, Roland: See—
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- Köster, Roland, to Studiengesellschaft Kohle m.b.H. Process for the production of N-trialkylborazanes. 3,125,603, 3-17-64, Cl. 260-583.
- Köster, Roland, to Studiengesellschaft Kohle m.b.H. Process for the production of boron aryls. 3,129,249, 4-14-64, Cl. 260-606.5.
- Köster, Roland, to K. Ziegler. Process for the production of alkali boron tetraalkyls. 3,163,679, 12-29-64, Cl. 260-606.5.
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- Kotas, Donald E., to Minneapolis-Honeywell Regulator Co. Voltage to frequency transducer. 3,147,406, 9-1-64, Cl. 317-146.
- Kothe, Heinz: See—
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- Kothe, Heinz, and K.-J. Gardener, to Henkel & Cie. G.m.b.H. Process for the production of sultones. 3,117,133, 1-7-64, Cl. 260-327.
- Kotler, William. Hospital beds. 3,147,494, 9-8-64, Cl. 5-81.
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- Kott, Arthur, and R. M. Olson, to Corn Products Co. Compacting starch. 3,119,719, 1-28-64, Cl. 127-71.
- Kottenhahn, Alfred P., to E. I. du Pont de Nemours and Co. Vanadium polymerization catalyst and process of polymerizing therewith. 3,154,528, 10-27-64, Cl. 260-80.7.
- Kottentette, James P.: See—
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- Kotter, James I.: See—
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- Kottke, Roger H., and J. J. Engel, to Archer-Daniels-Midland Co. Gas cure of organic bonds for sand and abrasive granules. 3,145,438, 8-25-64, Cl. 22-193.
- Kottler, August: See—
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- Kottler, Ernst, and Kottler. 3,133,967.
- Kottsieper, Edward, to United Aircraft Corp. Mount support with torque indicator. 3,135,487, 6-2-64, Cl. 248-5.
- Kotz, Arthur R., R. H. Appeldorn, E. W. Grieshaber, E. J. Peterson, and N. L. Giorgini, to Minnesota Mining and Mfg. Co. Thermographic copy machine wherein the infrared radiation source is a flash lamp with a capillary bore. 3,163,755, 12-29-64, Cl. 250-65.
- Kotzin, Tobias. Waistband construction process. 3,128,551, 3-31-64, Cl. 2-236.
- Koubba, Milo J. Bowling game device. 3,117,791, 1-14-64, Cl. 273-141.
- Koubba, Norman R., to E. I. du Pont de Nemours and Co. Stabilization of formaldehyde solutions. 3,152,189, 10-6-64, Cl. 260-606.
- Kough, Harry V.: See—
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- Kousek, Gordon C.: See—
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- Koutnik, Rodrick J., to Clary Corp. Shuttle valve. 3,151,624, 10-6-64, Cl. 137-112.
- Kouts, Herbert J. C.: See—
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- Koutz, Stanley L., R. B. Duffield, R. B. Minogue, H. P. Sleeper, Jr., and M. Frankel, to General Dynamics Corp. Neutronic reactor. 3,120,471, 2-4-64, Cl. 176-62.
- Koutz, Stanley L., W. A. Kalk, and F. B. Nimitz, to United States of America, Atomic Energy Commission. Core reactor for nuclear reactor. 3,124,514, 3-10-64, Cl. 176-58.
- Koutz, Stanley L., R. F. Turner, and P. Fortescue, to United States of America, Atomic Energy Commission. Fuel element for a neutronic reactor. 3,135,665, 6-2-64, Cl. 176-71.
- Kovachy, Julius M. Process for cleaning stone. 3,150,007, 9-22-64, Cl. 134-4.
- Kovacic, Joseph E., to The Dow Chemical Co. Process for making tetrabromohydroquinone. 3,143,576, 8-4-64, Cl. 260-623.
- Kovack, John M.: See—
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- Kovács, Theodor. Fountain pen. 3,134,363, 5-26-64, Cl. 120-45.6.
- Koval, Leonide P., to General Electric Co. Electric circuit breaker. 3,158,716, 11-24-64, Cl. 200-116.
- Kovalevski, Nicholas N., to Hewlett-Packard Co. High frequency voltmeter utilizing self-balancing loop. 3,142,799, 7-28-64, Cl. 324-99.
- Koven, Marc. Clasp. 3,148,428, 9-15-64, Cl. 24-230.
- Kover-Kar Inc.: See—
Corsetti, John A. 3,123,394.
- Kowaleski, Clarence, and W. P. Ford, to Bell Telephone Laboratories, Inc. Multiple conductor connector. 3,155,446, 11-3-64, Cl. 339-176.
- Kowall, John T.: See—
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- Kowalski, Sławomir, to Marotta Valve Corp. Enclosed spring construction. 3,147,961, 9-8-64, Cl. 267-1.
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- Kowalski, Walter, to McGraw-Edison Co. Electric disconnect switch. 3,161,735, 12-15-64, Cl. 200-48.
- Kowalsky, John B.: See—
Bevan, Robert K., Cloud, and Kowalsky. 3,150,375.
- Kowalshyn, Stephen, to United States of America, Navy. Method and apparatus for self noise tests for submerged vehicles. 3,156,208, 11-10-64, Cl. 114-25.
- Kowanda, Josef. Theft alarm for motor vehicles. 3,160,868, 12-8-64, Cl. 340-261.
- Kownurko, Leonard I.: See—
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- Kownurko, Leonard I., and R. H. Brill, to Philco Corp. Laundry apparatus. 3,148,523, 9-15-64, Cl. 68-12.
- Kownia, Mitchell J. Automatic sampling system. 3,156,120, 11-10-64, Cl. 73-421.
- Koyanagi, Keinosuke, to Tokyo-Shibaura Denki Kabushiki Kaisha. Apparatus for preventing overheating of engine of vehicle equipped with air-conditioning system. 3,121,314, 2-18-64, Cl. 62-133.
- Kozak, Stanley H., to General Electric Co. Electrical apparatus and method of making same. 3,156,885, 11-10-64, Cl. 336-197.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Time lag fuses of the blade contact type. 3,123,693, 3-3-64, Cl. 200-120.
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- Kozacka, Frederick J., to The Chase-Shawmut Co. Blade-type electric fuses. 3,152,233, 10-6-64, Cl. 200-120.
- Kozak, Edward: See—
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- Kozel, James A., to The Horton Co. Mixing valve for automatic washing machine. 3,135,280, 6-2-64, Cl. 137-99.
- Kozel, James A., and C. E. Lyall, to The Horton Co. Fluid control system for washing machines. 3,122,010, 2-25-64, Cl. 68-23.
- Kozlak, Roman, to Tesla, narodni podnik. Electron gun for generating a hollow beam. 3,130,340, 4-21-64, Cl. 313-82.
- Kozicki, Henry J.: See—
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- Kozicki, Henry J., to Ford Motor Co. Vehicle driveline construction. 3,150,737, 9-29-64, Cl. 180-70.
- Kozicki, Henry J., to Ford Motor Co. Motor vehicle road wheel suspension. 3,157,242, 11-17-64, Cl. 180-73.
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- Kozion, Frank A., F. Smith, J. A. Thompson, and R. P. Allen, to United States of America, Air Force. Patching panels for electrical interconnections. 3,146,050, 8-25-64, Cl. 339-18.
- Kozlowski, Edward C., to The Warner Brothers Co. Box and closure therefor. 3,125,277, 3-17-64, Cl. 229-27.
- Koznarski, Frank R. Method of and apparatus for trolling. 3,149,419, 9-22-64, Cl. 33-126.
- Kozuch, Stanley J.: See—
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- Krabbe, Erik: See—
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- Krach, Clyde N.: See—
Weissensee, Gunther G., and Krach. 3,123,955.
- Kracht, Gerhart, to Koppers Co., Inc. Apparatus for producing flexible styrene polymers. 3,119,147, 1-28-64, Cl. 18-1.
- Kracht, Otto, to Kracht Pumpen- und Motorenfabrik K.G. Device for the automatic control of the volume of the air cushion in the pressure tank of water supply systems. 3,163,114, 12-29-64, Cl. 103-6.
- Kracht Pumpen- und Motorenfabrik K.G.: See—
Kracht, Otto. 3,163,114.
- Krack, William G.: See—
Gleason, Frederick C., Krack, and Soukup. 3,118,218.
- Kracklauer, Aloysius C., to C.I.T. Corp. Plate filter and method of manufacture. 3,142,642, 7-28-64, Cl. 210-232.
- Kraemer, Asger, to Danfoss ved ingenior Mads Clausen. Electric contact device. 3,153,709, 10-20-64, Cl. 200-84.
- Kraemer, Karl. Transmission assembly. 3,130,607, 4-28-64, Cl. 74-765.
- Kraemer, Robert E., and J. T. Kowall, to Ford Motor Co. Independent bogie suspension. 3,157,238, 11-17-64, Cl. 180-22.
- Kraepelin, Edward O. Rubber heel. 3,133,361, 5-19-64, Cl. 36-35.
- Krauter, Lincoln D., to Varian Associates. Microwave calorimeter wattmeter with a reflectionless R.F. termination. 3,143,703, 8-4-64, Cl. 324-95.
- Kraft, Frederic B., R. E. Corral, and J. F. Otto, to Anaconda Wire and Cable Co. Stranding apparatus. 3,142,952, 8-4-64, Cl. 57-58.32.
- Kraft, Alfred. Apparatus and process for the separation of solid particles from fluids. 3,152,071, 10-6-64, Cl. 210-20.
- Kraft, Arthur A., 49% to B. Yadon. Key transposing harmonica. 3,149,527, 9-22-64, Cl. 84-377.
- Kraft, August L., to Automatic Process Control, Inc. Fluid metering means. 3,119,412, 1-28-64, Cl. 137-565.
- Kraft, Donald L., and J. T. Roark, to Phillips Petroleum Co. Self-metering liquid applicator. 3,145,121, 8-18-64, Cl. 118-202.
- Kraft, Frank B., and G. Rodger, to Hamstell Corp. Ltd. Means for adjusting the elevation of snow plow wing blades. 3,125,818, 3-24-64, Cl. 37-12.
- Kraft, Gerald G.: See—
McKee, Robert G. 3,151,781.
- Kraft, Harold D., and J. A., to Scientific Industries, Inc. Rotary apparatus for agitating fluids. 3,163,404, 12-29-64, Cl. 259-57.
- Kraft, Jack A.: See—
Kraft, Harold D. and J. A. 3,163,404.
- Kraft, James J. Portable bar. 3,140,133, 7-7-64, Cl. 312-140.2.
- Kraft, John H.: See—
Glabbe, Elmer F. 3,134,677.
- Kraft, Ralph W., to United Aircraft Corp. Unidirectional solidification of lamellar eutectic alloys. 3,124,452, 3-10-64, Cl. 75-135.
- Kraft, Ralph W., to United Aircraft Corp. Construction arrangement. 3,139,959, 7-7-64, Cl. 189-34.
- Kraft, William M.: See—
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- Kraft, William M., to Heyden Newport Chemical Corp. Aldehyde-modified alkyl resins and their production. 3,123,578, 3-3-64, Cl. 260-22.
- Kraft, William M., to Heyden Newport Chemical Corp. Pentacerythritol condensation products and their preparation. 3,126,356, 3-24-64, Cl. 260-22.
- Krahe, Donald C. Apparatus for mixing and milling viscous materials. 3,150,836, 9-29-64, Cl. 241-117.
- Krahe, Donald C., and H. E. Grubb, to Adhesive Engineering Co. Mixing and dispensing device. 3,140,078, 7-7-64, Cl. 259-47.
- Krahn, Leo G., and E. Grossich, to Amsted Industries Inc. Take-off conveyor. 3,129,805, 4-21-64, Cl. 198-127.
- Krahn, Vincent F., and D. S. Lock, to Ford Motor Co. Row crop forage harvester. 3,126,691, 3-31-64, Cl. 56-119.
- Kraissl, Frederick, Jr. Impeller type pump. 3,149,575, 9-22-64, Cl. 103-118.
- Krakauer, C. L., to Kay Mfg. Corp. Sinuous spring structure. 3,129,935, 4-21-64, Cl. 267-111.
- Krakauer, Edward M.: See—
Burns, Lawrence C., and Krakauer. 3,117,875.
- Krakauer, Merrill, and H. E. Verbeke, to Automatic Canteen Co. of America. Multiple-slide, single-reservoir coin dispenser. 3,135,271, 6-2-64, Cl. 133-4.
- Krakauer, Merrill, and H. E. Verbeke, to Automatic Canteen Co. of America. Regulated coin released locking mechanism. 3,144,924, 8-18-64, Cl. 194-18.
- Krakauer, Wallace: See—
Kertesz, Carl. 3,129,653.
- Krakinowski, Morris: See—
Corf, Gustave D., and Krakinowski. 3,145,023.
- Krakower, Alvin H., and H. Schoenfeld. Brassiere. 3,131,696, 5-5-64, Cl. 128-465.
- Krakower, Gerald W.: See—
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- Kral, William J. Apparatus for lifting and transporting invalids. 3,123,224, 3-3-64, Cl. 212-128.
- Kraley, Raymond L.: See—
Beaman, Charles A., and Kraley. 3,120,663.
- Kralinator Filters Ltd.: See—
Havelka, Otakar R., and Kampf. 3,135,075.
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- Kralowetz, Bruno. Forging machine. 3,135,139, 6-2-64, Cl. 78-21.
- Kralowetz, Bruno. Forging machine. 3,146,642, 9-1-64, Cl. 78-22.
- Kramar, Ernst, to International Standard Electric Corp. Twin beacon system. 3,130,407, 4-21-64, Cl. 343-107.

Kramcesak, Michael, Jr., and R. E. Sheahan, to Stewart-Warner Corp. Leveling device. 3,155,357, 11-3-64, Cl. 248-188.3.

Kramer, Cornelius, to North American Phillips Co., Inc. Radar beacon for transmitting pulse-modulated high frequency energy upon the reception of a radar signal. 3,127,603, 3-31-64, Cl. 343-6.8.

Kramer, Daniel E.: See—

Kramer, Israel and D. E. 3,140,041.

Malkoff, Hyman, Kramer, and Nussbaum. 3,139,735.

Kramer, Gideon A., to Ion Corp. Chair. 3,133,765, 5-19-64, Cl. 297-44.5.

Kramer, Horst, and F. Sturzenhofecker, to Chemische Werke Huls, Aktiengesellschaft. Dipoxy-1,3,5-trimethylene trisulfones and their preparation. 3,155,681, 11-3-64, Cl. 260-327.

Kramer, Israel, to Kramer Trenton Co. Baseboard radiator. 3,139,925, 7-7-64, Cl. 165-67.

Kramer, Israel and D. E., to Kramer Trenton Co. Means for controlling lubrication of hermetic compressors. 3,140,041, 7-7-64, Cl. 230-44.

Kramer, Kenneth C.: See—

Auld, Samuel H., Jr., Kramer, and Tobie. 3,136,502.

Kramer, Lawrence I. Sheet feeding apparatus. 3,127,168, 3-31-64, Cl. 271-29.

Kramer, Leo, to Ingersoll-Rand Co. Reciprocating means. 3,116,698, 1-7-64, Cl. 103-162.

Kramer, Leonard: See—

Happel, John, and Kramer. 3,156,733.

Kramer, Martin R., to United Aircraft Corp. Optical pressure transducer. 3,122,922, 3-3-64, Cl. 73-398.

Kramer, Martin R., and T. J. Silver, to United Aircraft Corp. Digital rate of flow transducer. 3,140,606, 7-14-64, Cl. 73-205.

Kramer, Mary E. Therapeutic eye treating apparatus and method. 3,152,594, 10-13-64, Cl. 128-395.

Kramer, Max J., to Aluminum Co. of America. Permanent magnet rotor type ammeter responsive to the flux of a conductor carrying current to be measured. 3,129,384, 4-14-64, Cl. 324-146.

Kramer, Max O., to Coleman-Kramer, Inc. Means and method for stabilizing laminar boundary layer flow. 3,161,385, 12-15-64, Cl. 244-130.

Kramer, Norman S. Quilted headboard and method of fabrication thereof. 3,116,669, 1-7-64, Cl. 45-138.

Kramer Trenton Co.: See—

Kramer, Israel. 3,139,925.

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Kramer, Vance M., and L. W. Carlton. Rubber tube with enclosed metal ring. 3,131,954, 5-5-64, Cl. 285-238.

Kramer, Vance M., and L. W. Carlton. Method of and apparatus for making and joining spirally corrugated rubber tubing. 3,155,757, 11-3-64, Cl. 264-286.

Kramer, Walter, to Slemag Slegener Maschinenbau G.m.b.H. Shearing machine with rotating and translating blades. 3,121,361, 2-18-64, Cl. 83-315.

Kramer, Walter, and W. Müller, to Slemag Slegener Maschinenbau G.m.b.H. Coupling. 3,126,722, 3-31-64, Cl. 64-8.

Kramer, Walter E., to The Pure Oil Co. Disulfamic acids and related compounds. 3,118,891, 1-21-64, Cl. 260-279.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Degreasing compositions. 3,123,568, 3-3-64, Cl. 252-139.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Poly(heterocyclic amines). 3,127,359, 3-31-64, Cl. 260-2.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Alkyd resins from complex acids. 3,129,192, 4-14-64, Cl. 260-22.

Kramer, Walter E., L. A. Joo, and R. M. Haines, to The Pure Oil Co. Process for producing alkali metal adducts of aromatic solvent extracts of petroleum fractions, the products thereof and carbonation of the products. 3,153,087, 10-13-64, Cl. 260-515.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Preparation of alkyd resins from complex carboxylic acids prepared from solvent extracts. 3,154,507, 10-27-64, Cl. 260-22.

Kramer, William E.: See—

Biber, Albert, Kramer, and Walsh. 3,119,604.

Kramer, William F., to Philco Corp. Air conditioning apparatus. 3,119,242, 1-23-64, Cl. 62-280.

Kramer, William F., to Ametek, Inc. Electrical pressure transducer. 3,136,968, 6-9-64, Cl. 338-41.

Kramm, Carl H. Coin-controlled hobby horse. 3,149,837, 9-22-64, Cl. 272-53.1.

Krammes, Don C., to The Hoover Co. Unitary floor scrubbing and drying appliance. 3,117,337, 1-14-64, Cl. 15-320.

Kramp, Carl H., to North American Phillips Co., Inc. Method of manufacturing alloy-diffusion transistors. 3,152,025, 10-6-64, Cl. 148-179.

Kramp, Kurt M.: See—

Wimberly, Floyd T., McLeod, and Kramp. 3,150,365.

Krampert, Edmund A. Adjustable boring tool. 3,148,561, 9-15-64, Cl. 77-58.

Krance, Casimir, to Viciyrite Candle Co. Method of wrapping candles. 3,126,682, 3-31-64, Cl. 53-30.

Krane, Herbert G., and W. W. Sanders, to Standard Oil Co. Paraffin isomerization process. 3,150,205, 9-22-64, Cl. 260-683.65.

Krane, Robert, and R. F. McVicker, to Lynch Corp. Intermittent drive. 3,153,937, 10-27-64, Cl. 74-130.

Krantz-Aachen, H.: See—

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Krantz, Alfred. Intra-dermic injector. 3,129,708, 4-21-64, Cl. 128-173.

Krantz, Evert: See—

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Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Gas purification apparatus. 3,138,441, 6-23-64, Cl. 55-227.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Apparatus for treating dust-laden gas. 3,138,442, 6-23-64, Cl. 55-227.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Arrangement in an apparatus for the supply and atomizing of a liquid in a gaseous medium. 3,138,647, 6-23-64, Cl. 261-112.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Wet-cleaning of gases. 3,142,548, 7-28-64, Cl. 55-89.

Krantz, H., Sohn: See—

Byusch, Heinrich. 3,147,532.

Krantz, Hubert. Closed apparatus for the wet treatment and particularly dyeing of textiles with liquor heated to above 100°C. 3,145,555, 8-25-64, Cl. 68-189.

Krantz, Tibor: See—

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Krantz, Tibor, and V. Silins, to Sherritt Gordon Mines Ltd. Apparatus for roll compacting metal and metal coated particles. 3,144,681, 8-18-64, Cl. 18-9.

Krapcho, John, to Olin Mathieson Chemical Corp. Diphenylacetamide derivatives. 3,143,555, 8-4-64, Cl. 260-347.3.

Krapcho, John, to Olin Mathieson Chemical Corp. Substituted aminophenyl-ethylamine derivatives. 3,145,209, 8-18-64, Cl. 260-268.

Krapcho, John, to Olin Mathieson Chemical Corp. (2-alkoxy-2,2-diphenylethyl)-heterocyclic compounds. 3,157,656, 11-17-64, Cl. 260-268.

Krapcho, John, to Olin Mathieson Chemical Corp. Benzocycloheptenones and derivatives. 3,160,656, 12-8-64, Cl. 260-501.

Krapcho, John, and H. L. Yale, to Olin Mathieson Chemical Corp. Benzothiazole, benzothiazine, and benzothiazepine compounds. 3,117,124, 1-7-64, Cl. 260-243.

Krapcho, John, and C. F. Turk, to Olin Mathieson Chemical Corp. Benzothiazolones, related compounds and their preparation. 3,155,649, 11-3-64, Cl. 260-239.3.

Krafft, Siegfried G. Ceramic materials and methods for their manufacture. 3,143,413, 8-4-64, Cl. 75-201.

Krapp, John T. Self venting separable coupling with lock. 3,124,374, 3-10-64, Cl. 285-85.

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Schrenk, Gotthilf, and Krapppatsch. 3,123,724.

Kras, Frank B., and C. Wasserberg. Time controlled automatic arc welding tool. 3,119,019, 1-21-64, Cl. 219-127.

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Kraskin, Kenneth S.: See—

Smythe, Carl V., and Kraskin. 3,143,408.

Krastinat, Walter: See—

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Kratkey, Josef, to K. and H. Gerlach. Method and device for reconditioning of worn railroad rails by re-profiling the rail head. 3,133,343, 5-19-64, Cl. 29-401.

Kratochvil, Anton. Gear train. 3,143,006, 8-4-64, Cl. 74-797.

Kratochvil, Friedrich, to Telefunken Aktiengesellschaft. Magnetic deflection yoke. 3,152,291, 10-6-64, Cl. 317-200.

Kratt, Henry J., to The Plastic Contact Lens Co. Apparatus for producing contact lenses. 3,162,985, 12-29-64, Cl. 51-217.

Kratz, Howard R., and A. W. Blackstock, to General Dynamics Corp. Pressure transducer. 3,137,171, 6-16-64, Cl. 73-398.

Kraus, Alexander, to Rohde & Schwarz. Electrical connection for waveguide or coaxial cable. 3,131,369, 4-28-64, Cl. 333-98.

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Kraus, Arthur, and W. Elchin, to Siemens & Halske Aktiengesellschaft. Travelling wave tube having an elastically mounted helical delay line. 3,117,250, 1-7-64, Cl. 315-3.5.

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Kraus, Charles E., to Excelsomatic, Inc. Roller support mechanism for toroidal drive. 3,159,042, 12-1-64, Cl. 74-200.

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Kraus, Charles E., to Excelsomatic, Inc. Toroidal transmission bearing means. 3,163,050, 12-29-64, Cl. 74-200.

Kraus, Charles E., to Excelsomatic, Inc. Roller construction for toroidal transmissions. 3,163,051, 12-29-64, Cl. 74-200.

Kraus, Franz, to W. Schmidding. Siphon dispenser. 3,161,327, 12-15-64, Cl. 222-204.

Kraus, George, to Curtiss-Wright Corp. Multi-layer anisotropic heat shield construction. 3,156,091, 11-10-64, Cl. 60-35.6.

Kraus, Gerard, to Phillips Petroleum Co. Cis-polybutadiene compositions. 3,159,691, 12-1-64, Cl. 260-894.

Kraus, Gerard, and J. T. Gruver, to Phillips Petroleum Co. Method of curing polymeric materials and the product thereof. 3,153,639, 10-20-64, Cl. 260-85.1.

Kraus, Harold. Crushing tool for mineral assaying. 3,124,313, 3-10-64, Cl. 241-74.

Kraus, James J., to Kimberly-Clark Corp. Papermaking drying drum. 3,116,985, 1-7-64, Cl. 34-110.

Kraus, James J., to Kimberly-Clark Corp. Process of coating paper with a trailing blade. 3,152,918, 10-13-64, Cl. 117-63.

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Kraus, Ludwig, to Daimler-Benz Aktiengesellschaft. Wheel suspension for vehicles. 3,161,251, 12-15-64, Cl. 180-64.

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Kraus, Albert L. and M. C. Windshield scraper. 3,130,436, 4-28-64, Cl. 15-236.

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Kraus, Arthur H., to United Shoe Machinery Corp. Sealant from an isocyanate-terminated polyol, a diglycidyl ether, and a polyol. 3,158,586, 11-24-64, Cl. 260-40.

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Kraus, Edward H., Jr.: See—

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Kraus, Erich. Safety attachments for wallets. 3,129,741, 4-21-64, Cl. 150-47.

Kraus, Frank R. Leaf spring tapering apparatus. 3,145,591, 8-25-64, Cl. 80-19.

Kraus, Friedrich, K. Helmel, and L. Starck, to Linotype G.m.b.H. Malfunction detection arrangement for a line-casting machine. 3,139,178, 6-30-64, Cl. 199-18.

Kraus, Gerhard P.: See—

Zilges, Franz-Josef, and Kraus. 3,123,215.

Kraus, Gerhard P., to Schloemann Aktiengesellschaft. Extrusion presses. 3,124,250, 3-10-64, Cl. 207-1.

Kraus, Gerhard P., and H. H. Groos, to Schloemann Aktiengesellschaft. Horizontal metal-extrusion presses. 3,143,211, 8-4-64, Cl. 207-3.

Kraus, Ira J., to Abbott Laboratories. Device for parenteral solutions. 3,128,917, 4-14-64, Cl. 222-190.

Kraus, James N., to The Anaconda Aluminum Co. Container. 3,156,401, 11-10-64, Cl. 229-4.5.

Kraus, John F., Jr., to General American Transportation Corp. Railway tank cars. 3,139,841, 7-7-64, Cl. 105-360.

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Krauss, Bert F., to Stelma, Inc. Digital signal synchronizer system. 3,141,930, 7-21-64, Cl. 178-69.6.

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Krauss, Robert D. Play pen. 3,119,124, 1-28-64, Cl. 5-99.

Krauss, Robert E., and V. Georgeff, to Danly Machine Specialties, Inc. Die cushion locking and pull down cylinder. 3,162,159, 12-22-64, Cl. 113-45.

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- Krell, Herbert L., to Jarman-Williamson Co. Golf player's rest. 3,162,461, 12-22-64, Cl. 280-47.19.
- Krellner, Walter G., to Stackpole Carbon Co. Twin electric brush assembly with pressure arm wedge. 3,158,772, 11-24-64, Cl. 310-246.
- Krembel, Frank, Jr., to Columbia Marking Tools, Inc. Die holder. 3,116,683, 1-7-64, Cl. 101-28.
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- Krenke, Norman O., to Baker Perkins Inc. Pneumatic conveyor system. 3,158,405, 11-24-64, Cl. 302-3.
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- Kreps, Robert W. F., and A. Klootwijk to Shell Oil Co. Process for preparing epoxy esters of alpha, alpha-dialkyl monocarboxylic acids. 3,142,686, 7-28-64, Cl. 260-348.
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- Kress, Edward S. 3,154,301.
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- Kress, Bernard H., to Quaker Chemical Corp. Acetal condensation products and their preparation. 3,150,190, 9-22-64, Cl. 260-615.
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- Krestin, Hans G., and A. Seidl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Metal-separating device. 3,117,080, 1-7-64, Cl. 209-1.
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- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Variable pulse length code detector. 3,138,717, 6-23-64, Cl. 307-88.
- Kretzmer, Minor G., Jr., to The A. C. Gilbert Co. Multiple branch lane switching in model traffic system. 3,117,755, 1-14-64, Cl. 240-415.
- Kretzmer, Minor G., Jr., R. E. Davis, Jr., and W. B. Gross, to The A. C. Gilbert Co. Truck and releasable coupler for miniature trains. 3,140,783, 7-14-64, Cl. 213-75.
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- Kronogard, Sven-Olof, to Volvo, Ab. Hydrodynamic torque converter. 3,154,924, 11-3-64, Cl. 60-54.
- Kronprinz Aktiengesellschaft: See—
- Albert, Werner. 3,117,369.
- Brütach, Wilhelm, Busch, and Roskoth. 3,118,540.
- Hendricks, Ernst. 3,161,222.
- Kroodsma, Adaline R., and C. A. Warnke. Sliding type dispenser. 3,141,582, 7-21-64, Cl. 222-284.
- Krook, Edwin J.: See—
- Maurits, Orville C., and Krook. 3,142,506.
- Kroon, Dirk J., and J. Volger, to North American Phillips Co., Inc. Device for recording nuclear resonance spectra. 3,137,813, 6-16-64, Cl. 324-5.
- Kroon, James L.: See—
- Rausch, Douglas A., Kroon, and Davis. 3,145,082.
- Kroon, John J. Luminous electric clock. 3,145,526, 8-25-64, Cl. 58-050.
- Kröpf, Hans: See—
- Kumpf, Hermann, and Kröpf. 3,137,638.
- Kropiwnicki, Tadek M.: See—
- Przyon, George T., and Kropiwnicki. 3,162,360.
- Kropp, Karl, and H. Millendorfer, to C. Reichert, Optische Werke Aktiengesellschaft. Photomicrographic equipments. 3,130,634, 4-28-64, Cl. 86-24.
- Kropp, Richard G., to General Motors Corp. Clip type cable fastening device. 3,126,184, 3-24-64, Cl. 248-73.
- Kropp Speed-Way, Inc.: See—
- Lengel, Charles N. 3,147,585.
- Kropp, Willis A., and J. J. Plott, to General Time Corp. Rotary solenoid and method of assembling same. 3,147,411, 9-1-64, Cl. 317-197.
- Krossa, Kenneth D., to Burroughs Corp. Adjustable clamp for transistor switching circuits. 3,160,765, 12-8-64, Cl. 307-88.5.
- Krossa, Kenneth D., and N. Deo, to Burroughs Corp. Isolation circuit, including diodes and a resistance for use in highly stable timing circuits. 3,130,327, 4-21-64, Cl. 307-88.5.
- Krsek, George, W. C. Benzling, and B. Topas, to Merck & Co., Inc. Epitaxial deposition on a substrate placed in a socket of the carrier member. 3,131,098, 4-28-64, Cl. 148-175.
- Krick, Ralph E. Burner for normally liquid solidified fuel. 3,130,774, 4-28-64, Cl. 158-86.
- Kruck, Ralph E., to Metal Fabrications, Inc. Spray dispensing devices. 3,139,223, 6-30-64, Cl. 222-394.
- Kruckeberg, Christian W.: See—
- Jauch, Robert J., and Kruckeberg. 3,152,724.
- Schulze, Robert E., Jauch, and Kruckeberg. 3,119,522.
- Kruckenberg, Winfried, and A. Schultheiss, to Farbenfabriken Bayer Aktiengesellschaft. Spin-dyeing of acrylonitrile polymers. 3,122,517, 2-25-64, Cl. 260-41.
- Kruckenberg, Winfried, and K. Wels, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyeing of polyethylene terephthalate fibers and fibers so produced. 3,125,402, 3-17-64, Cl. 8-41.
- Krueger, Alfred E. Circuit controller. 3,125,371, 3-17-64, Cl. 296-44.
- Krueger, Alfred E., to General Motors Corp. Convertible top header latch. 3,129,025, 4-14-64, Cl. 292-97.

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- Krueger, Alfred P., to Minnesota Mining and Mfg. Co. Tape dispenser. 3,143,019, 8-4-64, Cl. 83-224.
- Krueger, Archie S.: See—
Jones, Vincent C., Huss, and Krueger. 3,134,503.
- Krueger, Archie S., to Alwin Mfg. Co. Dispenser for folded paper articles. 3,124,268, 3-10-64, Cl. 221-36.
- Krueger, Friedrich: See—
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- Krueger, Friedrich, to Job. A. Benckiser, G.m.b.H., Chemische Fabrik. 5-Nitro furfurylidene-D-glucosamine, and process of making same. 3,122,535, 2-25-64, Cl. 260-211.
- Krueger, Glenn N.: See—
Frostick, Harold G., and Krueger. 3,146,866.
- Krueger, Helmut H. A.: See—
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- Krueger, John W., and J. F. Warner, to La Salle Steel Co. Marking device and method. 3,124,069, 3-10-64, Cl. 101-426.
- Krueger, Mark T. Fishing device and mountings therefor. 3,134,186, 5-26-64, Cl. 43-17.
- Krueger, Melvin W., to Dairy Equipment Co. Truck tank. 3,163,434, 12-29-64, Cl. 280-5.
- Krueger, Melvin W., and G. B. Luhman, Jr., to Dairy Equipment Co. Transport tank. 3,163,435, 12-29-64, Cl. 280-5.
- Krueger, Norman F., and G. A. Spillson, to Consolidated Paper Co. Center support carton. 3,130,892, 4-28-64, Cl. 229-18.
- Krueger, Rudolph E., 1/2 to W. C. Deeds. Air density meter. 3,137,158, 6-16-64, Cl. 73-30.
- Krueger, Rudolph E. Sealing means. 3,161,318, 12-15-64, Cl. 220-46.
- Krueger, Theodore H., and N. Campanaro, to Better Packages, Inc. Method of preparing and applying sealing tape. 3,157,550, 11-17-64, Cl. 156-320.
- Krueger, Theodore H., Jr. Arched structure. 3,144,103, 8-11-64, Cl. 189-1.
- Kruell, Andreas. Window blind with vertical slats. 3,159,204, 12-1-64, Cl. 160-168.
- Krug, Albert E., to Becton Dickinson and Co. Suction device. 3,125,094, 3-17-64, Cl. 128-300.
- Krug, Albert E., and G. H. Keller, to Dickinson, Becton, and Co. Self sealing pierceable stopper for sealed containers. 3,136,440, 6-9-64, Cl. 215-47.
- Krug, Robert H.: See—
Kay, Edward L., Tierney, Krug, and Henry. 3,125,528.
- Krug, Robert H., B. Tierney, E. C. Knowles, and E. L. Kay, to Texaco Inc. Synergistic combination of extreme pressure additives for lubricating oils. 3,125,527, 3-17-64, Cl. 252-46.3.
- Krug, William H.: See—
Gibbs, Thomas B., Krug, and Marshall. 3,150,228.
- Kruger, Dr. Hans-Joachim: See—
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- Kruger, Ernst, to Elektro-Thermit G.m.b.H. Apparatus for grinding rails. 3,154,892, 11-3-64, Cl. 51-178.
- Kruger, James B., and R. L. Bordeaux, to Philip Morris, Inc. Injector magazine for injector razor blades. 3,126,126, 3-24-64, Cl. 221-102.
- Kruger, Michael H., to Smithcraft Corp. Ceiling illuminating system. Re. 25,628, 8-4-64, Cl. 240-9.
- Kruger, Michael H., to Smithcraft Corp. Lighting. 3,124,311, 3-10-64, Cl. 240-78.
- Krullink, Rudolf M.: See—
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- Kruthoff, Neal. Method of forming a core for casting a copper transformer element. 3,140,518, 7-14-64, Cl. 22-194.
- Kruitwagen, Reinrus A. L., and A. B. Pasteuning, to AMP Inc. Connector pins. 3,163,485, 12-29-64, Cl. 339-272.
- Kruziener, Maurits: See—
Van der Voort, Henricus G. P. and Kruziener. 3,130,161.
- Krumheuer, Sidney F., to Rockwood & Co. Feed conveyors for bunk feeders. 3,116,715, 1-7-64, Cl. 119-32.
- Krummel, Frederick J., to Walworth Co. Check valve for relatively large size pipe. 3,128,785, 4-14-64, Cl. 137-315.
- Krumrei, William C.: See—
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- Krup, Donald E. Mixing device. 3,140,861, 7-14-64, Cl. 259-10.
- Krupick, Walter J., and W. J. Lewis, to General Precision, Inc. Compact inertial-damped single-axis accelerometer. 3,132,521, 5-12-64, Cl. 73-517.
- Krupick, Walter J., and M. Gabor, to General Precision, Inc. Sub-miniature fluid damper gyro, fitted with temperature compensation mechanism. 3,132,524, 5-12-64, Cl. 74-5.5.
- Krupick, Walter J., and J. Hoffman, to General Precision, Inc. Laminated gimbal for gyro and method of making. 3,134,265, 5-26-64, Cl. 74-5.5.
- Krupka, George, J. S. Schultz, and D. T. Winski, to American Cyanamid Co. Recovery of streptokinase from fermentation mash. 3,145,153, 8-18-64, Cl. 195-66.
- Krupnik, Norman. Gliding vehicle for use on snow, ice or water. 3,143,357, 8-4-64, Cl. 280-18.
- Krupotich, Edward A., to T. W. Evans, H. J. Sherman, W. Clark, and E. A. Krupotich, doing business as partners. Envelope opening and distributing apparatus. 3,132,629, 5-12-64, Cl. 120-35.
- Krupotich, Edward A., to T. W. Evans, H. J. Sherman, W. Clark, and E. A. Krupotich. Unfolding mechanism for envelope opening apparatus. 3,143,100, 8-4-64, Cl. 120-35.
- Krupotich, Edward A., E. F. Pierce, and R. E. Berg, to T. W. Evans, H. J. Sherman, and W. Clark. Envelope opener and distribution apparatus. 3,116,718, 1-7-64, Cl. 120-35.
- Krupp, Anton M., and R. D. Divoky, to General Electric Co. Electric lamp socket. 3,128,141, 4-7-64, Cl. 339-97.
- Krupp-Dolberg Gesellschaft mit beschränkter Haftung: See—
Schneider, Fritz W. 3,143,504.
- Krupp, Frederick W., to Gudebrod Brothers Silk Co., Inc. Package for strand material. 3,127,990, 4-7-64, Cl. 206-62.
- Krups, Robert: See—
Lovgren, Anders E. 3,154,297.
- Kruse, Carl W., and R. F. Kleinschmidt, to Phillips Petroleum Co. Method for hydrogenating tertiary acetylenic amines. 3,121,747, 2-18-64, Cl. 260-583.
- Kruse, Carl W., and R. F. Kleinschmidt, to Phillips Petroleum Co. Products for the reaction of alkynes and secondary amines. 3,137,729, 6-16-64, Cl. 260-583.
- Kruse, Fred W., Jr., to Alfred Electronics. Alternating current voltage regulator. 3,160,808, 12-8-64, Cl. 323-22.
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- Kruse, Frederick W., Jr., and R. H. Britton, Jr., to Alfred Electronics. System for modulating power level of microwave oscillators. 3,145,351, 8-18-64, Cl. 332-39.
- Kruse, Georg. Process for the preparation of a ready-for-use preserved food made from fresh onions. 3,138,464, 6-23-64, Cl. 99-154.
- Kruse, Harold L., W. H. King, W. T. Hardison, and R. L. Jones, to Bourne, Inc. Miniature multi-turn variable resistor. 3,139,601, 6-30-64, Cl. 338-143.
- Kruse, Howard W.: See—
McBride, William R., and Kruse. 3,135,800.
- Kruse, Jürgen M.: See—
Arnold, Charles, Jr., and Kruse. 3,125,538.
- Kruse, Jürgen M., to E. I. du Pont de Nemours and Co. Process for extracting beryllium values from ores. 3,148,022, 9-8-64, Cl. 23-15.
- Kruse, Otto, to Wilhelm Fette Firma. Machine tool cutter and process for assembling the same. 3,162,928, 12-29-64, Cl. 29-105.
- Kruse, William P., and J. McConnell, to Admiral Corp. Velocity determining device. 3,122,740, 2-25-64, Cl. 343-8.
- Krüssmann, Adolf, and E. Freitag, to Schoppe & Faeser G.m.b.H. Transducer with square root extraction. 3,134,261, 5-26-64, Cl. 73-398.
- Kruzic, John F.: See—
Dambrogio, Edward J., and Kruzic. 3,131,636.
- Kryneck, John, to Radio Corp. of America. Method of fabricating semiconductor devices. 3,122,464, 2-25-64, Cl. 156-17.
- Krynski, John E., to Ametek, Inc. Filter. 3,143,502, 8-4-64, Cl. 210-401.
- Krysmanski, Reiner, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor rectifier device, particularly of miniature type. 3,122,685, 2-25-64, Cl. 317-234.
- Krystyniak, Casimir W., A. T. Mucicgroso, and G. L. Floetz, to United States of America, Atomic Energy Commission. Production of round particles of ceramic material. 3,146,281, 8-25-64, Cl. 264-21.
- Kryszyk, Edward. Turbine blade cutting tool attachment. 3,143,923, 8-11-64, Cl. 90-31.
- Kryzer, Benjamin H., to Union Tank Car Co. Filters. 3,152,077, 10-6-64, Cl. 210-233.
- Krzewina, Thomas, to General Electric Co. Conjointly operated coupling and vent valve. 3,124,157, 3-10-64, Cl. 137-383.
- Kubak, Hubert A. Light mounting fixture. 3,158,328, 11-24-64, Cl. 240-16.
- Kubelka, Alois, and V. Svoboda, to Sdruzení podniků textilního strojírenství. Pneumatic device for inserting weft threads in warp loops of warp knitted fabric. 3,134,248, 5-26-64, Cl. 66-125.
- Kubica, Andrew J.: See—
Dryden, Hugh L. 3,135,089.
- Kubichan, Robert E.: See—
Ritenour, Gerald L., and Kubichan. 3,155,485.
- Kuble, William L., to United States of America, Agriculture. Linseed oil emulsion compositions comprising dipicolinate and linseed oil-derived emulsifiers. 3,140,191, 7-7-64, Cl. 106-254.
- Kubik, Clayton J. Bowling glove. 3,123,832, 3-10-64, Cl. 2-161.
- Kubisch, Joachim: See—
Gruneberg, Gerhard, Kubisch, and Spengler. 3,121,031.
- Kubisiak, Bernard G., to Allis-Chalmers Mfg. Co. Method of forming wound magnetic cores. 3,126,620, 3-31-64, Cl. 29-155.7.
- Kubit, Ted J., and W. S. Stanton. Automatically-inflatable life preserver. 3,127,624, 4-7-64, Cl. 9-317.

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- Kubit, Theophile T. Means for launching space vehicles. 3,122,057, 2-25-64, Cl. 89-1.7.
- Kubler, Donald G.: See—
Montagna, Amelio E., and Kubler. 3,121,120.
- Kubler, Kurt: See—
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- Kubota, Shoshichi. Animal cage with feed and water supply means. 3,126,866, 3-31-64, Cl. 119-18.
- Kubota, Tadashi: See—
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- Kubota, Takeo: See—
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- Kucera, Joseph B. Trap for animal flies. 3,141,444, 7-21-64, Cl. 119-156.
- Kucera, Joseph B., 1/2 to R. L. Lowell, and 1/2 to E. M. McElhinney. Material handling apparatus. 3,150,885, 9-29-64, Cl. 280-479.
- Kuchar, Anton, and O. Heyd, to Mauz & Pfeiffer. Device for adjusting the protective rubber strip of waxing machines. 3,148,397, 9-15-64, Cl. 15-49.
- Kucharski, Richard W.: See—
Lorimer, John D., Schuch, and Kucharski. 3,120,785.
- Kuchas, Francis C., to Bell Telephone Laboratories, Inc. Signal converter circuit. 3,133,155, 5-12-64, Cl. 179-18.
- Kuchek, Henry A., to The Dow Chemical Co. Method of producing clad porous metal articles. 3,138,856, 6-30-64, Cl. 29-423.
- Kuchek, Henry A., to The Dow Chemical Co. Method of producing clad porous metal articles. 3,138,857, 6-30-64, Cl. 29-423.
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- Kucher, Andrew A., to Ford Motor Co. Aircraft. 3,126,169, 3-24-64, Cl. 244-12.
- Kuchinsky, Saul, R. A. Cola, and S. R. Shaw, to Burroughs Corp. Signal converters. 3,121,219, 2-11-64, Cl. 340-347.
- Kuchler, Abraham, to The American Hardware Corp. Lock-out mechanism for lock sets. 3,125,876, 3-24-64, Cl. 70-146.
- Kuchta, William J.: See—
Tift, Leo R., Karpus, Kuchta, and Hatch. 3,142,490.
- Kuck, James C.: See—
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- Kuck, John H., to United States of America, Navy. Means for tracking multiple target formations by radar. 3,130,402, 4-21-64, Cl. 343-7.4.
- Kuck, John H.: See—
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- Kuck, John H., and R. H. Thayer, to United States of America, Navy. Noise discrimination control circuit utilizing a volume control thermionic amplifier circuit. 3,117,284, 1-7-64, Cl. 328-165.
- Kuckens, Alexander, and W. Niehaus. Method and means for mounting and controlling peltier elements. 3,139,734, 7-7-64, Cl. 62-3.
- Kuckertz, Josef: See—
Pützler, Friedrich, and Kuckertz. 3,124,063.
- Kuckhoff, Ferdinand A.: See—
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- Kucliar, Matthew A.: See—
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- Kudalis, Edwin J. Readily adjustable snap-action switch. 3,157,759, 11-17-64, Cl. 200-87.
- Kudelko, Vitezslav, to F. W. Berk & Co. Ltd. Nozzles for flame spraying pistols. 3,140,826, 7-14-64, Cl. 239-79.
- Kudelko, Arthur G., to Standard Pressed Steel Co. Fusion cladding technique and product. 3,139,511, 6-30-64, Cl. 219-76.
- Kudelko, Arthur G., to Honeywell Inc. Radiation pyrometer. 3,162,045, 12-22-64, Cl. 73-355.
- Kuderna, Jerome G., Jr., and D. D. Phillips, to Shell Oil Co. 3,4,5-trimethylphenyl methylcarbamate and its use as an insecticide. 3,130,122, 4-21-64, Cl. 167-30.
- Kudlaty, Walter J.: See—
Flick, Francis S., Wilkes, and Kudlaty. 3,141,008.
- Kudriavetz, Peter, Jr., to Acushnet Process Co. Resilient chair support. 3,117,819, 1-14-64, Cl. 297-452.
- Kudritzki, Hans: See—
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- Kudryashov, Ivan N.: See—
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- Kuebrich, Herbert P., and J. S. Petro, Jr., to General Electric Co. Coating refractory metals. 3,147,547, 9-8-64, Cl. 29-528.
- Kuechenmeister, Alfred J. Coupon ejector. 3,156,380, 11-10-64, Cl. 222-41.
- Kuechenmeister, Alfred J. Gravity ejector for invertible container. 3,156,386, 11-10-64, Cl. 222-372.
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- Kuehl, Donald K., to United Aircraft Corp. Propellant compositions containing oxyphylic and halophylic metals propellant. 3,133,842, 5-19-64, Cl. 149-19.
- Kuehl, Donald K., and R. L. Vasquez, to United Aircraft Corp. Method and means for improving combustion characteristics of solid propellants. 3,129,562, 4-21-64, Cl. 60-35.6.
- Kuebler, Jack D., to International Business Machines Corp. Apparatus for reading magnetic or electrostatic bits. 3,124,790, 3-10-64, Cl. 340-174.1.
- Kuebler, Jack D., to International Business Machines Corp. Apparatus for printing by means of an electron beam. 3,157,879, 11-17-64, Cl. 346-74.
- Kuehn, Andrew, III, to Honeywell Inc. Semiconductor apparatus. 3,151,281, 9-29-64, Cl. 317-130.
- Kuehn, Harry E. Closure assembly. 3,136,439, 6-9-64, Cl. 215-39.
- Kuehn, Karl H.: See—
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- Kuehne, Christoph, to Keuffel & Esser Co. Photosensitive electro-optical micrometers for rotary axes. 3,116,886, 1-7-64, Cl. 250-231.
- Kuehne, Alfred K., to Fibercraft Products, Inc. Plastic filter frame. 3,142,550, 7-28-64, Cl. 55-495.
- Kuehne, Martin E., to Ciba Corp. 6 acylamino-3 cyclohexyl [1,3] benzoxazines. 3,133,919, 5-19-64, Cl. 260-244.
- Kuehne, Martin E., to Ciba Corp. 1-(pyridyl-lower alkyl)-1,2,3,4-tetrahydroquinolines. 3,133,926, 5-19-64, Cl. 260-286.
- Kuehne, Martin E., to Ciba Corp. Pyrano-benzoxazines. 3,142,676, 7-28-64, Cl. 260-244.
- Kuehns, Ernst G.: See—
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- Kueny, Kenneth E., to Johnson Products, Inc. Method of making a casting. 3,122,822, 3-3-64, Cl. 29-156.7.
- Kuepfer, Matthew C.: See—
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- Kuerstern, Richard D., to Phillips Petroleum Co. Two phase fluid heat exchanger. 3,158,010, 11-24-64, Cl. 62-525.
- Kuerzel, Robert E., to General Electric Co. Control of single cycle power system having a steam generating reactor. 3,128,233, 4-7-64, Cl. 176-24.
- Kueser, John J., to Knapp-Monarch Co. Heating element and mounting for radiant heaters. 3,119,924, 1-28-64, Cl. 219-34.
- Kueser, John J., to Knapp-Monarch Co. Automatic toaster. 3,129,652, 4-21-64, Cl. 99-329.
- Kuester, Frank E.: See—
Pindley, Thomas W., Ohlson, and Kuester. 3,155,696.
- Kuester, Frank E., to Swift & Co. Dioxolated fatty acid esters. 3,127,418, 3-31-64, Cl. 260-340.9.
- Kueter, Kenneth E., to Abbott Laboratories. Veterinary anti-diarrhea composition. 3,137,619, 6-16-64, Cl. 167-53.
- Kuether, Oscar F. Container. 3,134,630, 5-26-64, Cl. 312-272.5.
- Kuffer, Fernand B.: See—
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- Kuffer, Fernand B., and R. A. Dora, to Beckman Instruments, Inc. Gas chromatograph integrated valve. 3,150,517, 9-29-64, Cl. 73-23.1.
- Kugel, Fritz, to J. M. Voith, G.m.b.H. Self-propelled vehicle, especially rail vehicle. 3,160,116, 12-8-64, Cl. 105-96.2.
- Kugel, Fritz, to J. M. Voith, G.m.b.H. Torque converter with symmetrical blading, mechanical clutch, and means to fill and partially empty the working chamber. 3,163,269, 12-29-64, Cl. 192-3.2.
- Kugel, Fritz, and M. Schrag, to Voith-Getriebe KG. Internal combustion engine driven rail vehicle. 3,163,126, 12-29-64, Cl. 105-96.2.
- Kugelscher, Georg Schafer & Co.: See—
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- Gassner, Hans, and Lang. 3,142,953.
- Kirchner, Willi, and Braune. 3,158,942.
- Kugler, Edwin R. Attachments for lift trucks. 3,126,223, 3-24-64, Cl. 294-103.
- Kugler, Emanuel. Bag. 3,117,712, 1-14-64, Cl. 229-62.
- Kugler, Simon, to The British Oxygen Co. Ltd. Liquid oxygen system for passenger aircraft. 3,152,589, 10-13-64, Cl. 128-186.
- Kugler, Walter. Bogie mounting arrangement. 3,150,611, 9-29-64, Cl. 105-199.
- Kuhagen, Fred W., to Supreme Products Corp. Adapter for stator assemblies to concentrate the flux paths therefrom. 3,134,034, 5-19-64, Cl. 310-19.
- Kuhar, Ludwig J., to The Singer Co. Rotary hook with thread and needle guard for sewing machines. 3,151,589, 10-6-64, Cl. 112-228.
- Kuhar, William A., and E. T. Carlson, to Cutler-Hammer, Inc. Bus duct. 3,140,345, 7-7-64, Cl. 174-99.
- Kuhl, Bernard R., and J. A. Carlson, to Warwick Electronics, Inc. Automatic television channel selector. 3,161,815, 12-15-64, Cl. 318-467.
- Kühle, Engelbert: See—
Malz, Hugo, Bayer, Freytag, and Kühle. 3,135,735.
- Kühle, Engelbert, R. Wexler, and L. Eue, to Farbenfabriken Bayer Aktiengesellschaft. Urea dibalides and process for the production thereof. 3,117,997, 1-14-64, Cl. 260-570.6.
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- Kuhlman Instrument Co.: See—
Kuhlman, Walter F. 3,132,505.
- Kuhlman, Joseph. Game device comprising a game piece rack with shelves and a game piece container with an opening covered by a slit diaphragm. 3,116,927, 1-7-64, Cl. 273-135.
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- Kuhlman, Walter F., to Kuhlman Instrument Co. Testing device. 3,132,505, 5-12-64, Cl. 73-40.
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- Kuhn, Beryl M.: See—
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Lamb, Charles P., and W. A. Dudley, to Merla Tool Corp. Gas lift valve. 3,125,113, 3-17-64, Cl. 137-155.
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Lamb, Douglas J., to Monsanto Co. Crimping device. 3,140,525, 7-14-64, Cl. 28-1.
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Lamb, Harold W., to Crossley Machine Co., Inc. Stacking and unloading apparatus. 3,129,825, 4-21-64, Cl. 214-6.
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- Lancetot, Donald H., deceased, by J. Lancetot, executrix, to Lantronics, Inc. Waveguide shutter utilizing flexible shutter vanes flexed by electromagnet. 3,121,207, 2-11-64, Cl. 333-98.
- Lancetot, Donald H., to Don-Lan Electronics Co., Inc. Dielectric rod radiating antenna. 3,128,467, 4-7-64, Cl. 343-708.
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- Lang, George H., R. G. A. New, and J. M. Thompson, to Imperial Chemical Industries Ltd. Process for preparing 2,2' dipyrrolyl. 3,152,137, 10-6-64, Cl. 260-296.
- Lang, Harold M., to Pan American Petroleum Corp. Anchor and fluid seal for conduit liner. 3,142,499, 7-28-64, Cl. 285-55.
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- Láng, Károly: See—
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- Lang, Konrad: See—
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- Lang, Richard E., and C. H. Smith, to United States of America, Navy. Cathode bias clamp. 3,129,388, 4-14-64, Cl. 330-123.
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- Lang, Sidney, to Multiple Products Corp. Chance number selector device for bingo games. 3,118,677, 1-21-64, Cl. 273-144.
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- Lang, William, to The Bates Mfg. Co. Rotary card index with brake. 3,146,868, 9-1-64, Cl. 192-8.
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- Lang, William A., to Steel City Electric Co. Receptacle mounting plate. 3,141,059, 7-14-64, Cl. 174-57.
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- Langdon, Donald R., 50% to O. Gibson. Nuclear weapon flash protection garment. 3,132,344, 5-12-64, Cl. 2-1.
- Langdon, Jesse D. Dual valved vacuum breaker. 3,125,114, 3-17-64, Cl. 137-218.
- Langdon, Jesse D. Water closet trap refill apparatus. 3,137,009, 6-16-64, Cl. 4-29.
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- Lange, Guenter, and H. G. Wippel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Azo dyes. 3,117,956, 1-14-64, Cl. 260-152.
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- Fiegl, Curt, and Lange. 3,147,382.
- Lange, William F., and S. A. Sloan, to Peabody Engineering Corp. Ignitor for fuel burner. 3,117,619, 1-14-64, Cl. 158-115.
- Langecker, Erhard, to Gebrüder Battenfeld, Firma. Apparatus for inflating hollow bodies from ribbons of thermoplastic material. 3,141,196, 7-21-64, Cl. 18-39.
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- Langer, Horst G., to The Dow Chemical Co. Organo-tin and lead chelates. 3,120,550, 2-4-64, Cl. 260-429.7.
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St. Clair, William E., and Larkin. 3,148,171.
- Larkin, Bert K.: See—
Poettmann, Fred H., Larkin, Milton, and Bixel. 3,127,935.
- Larkin, Cyril S., to Adhesive Tapes Ltd. Device for applying adhesive tape. 3,143,452, 8-4-64, Cl. 156-522.
- Larkin, Daniel C. Seat cover. Re. 25,537, 3-17-64, Cl. 297-219.
- Larkin, Frank L., and M. M. McNamara, to Monsanto Chemical Co. Process for treating nylon filaments. 3,124,632, 3-10-64, Cl. 264-290.
- Larkin, James R., and R. J. Van Twisk, to United States Rubber Co. Mold for open hollow objects. 3,142,094, 7-28-64, Cl. 18-39.
- Larkin, John P., to International Telephone and Telegraph Corp. Ternary recording and reproducing apparatus. 3,133,274, 5-12-64, Cl. 340-174.1.
- Larkin, Kenneth E. Stand and tilting support for bottles and the like. 3,150,832, 9-29-64, Cl. 248-141.
- Larkin, Mark E. Adjustable sink means. 3,118,147, 1-21-64, Cl. 4-170.
- Larkin, Robert E., to Cutler Hammer, Inc. Manually operated trigger switch for rotatable electric tools. 3,138,689, 6-23-64, Cl. 200-168.
- Larkin, Sam. Machine for making wire mesh. 3,144,054, 8-11-64, Cl. 140-112.
- Larkin, Thomas E., to United States Steel Corp. Plural motor synchronous tie starting system. 3,139,573, 6-30-64, Cl. 318-44.
- Larkin, Thomas E. Remote gas meter. 3,154,672, 10-27-64, Cl. 235-92.
- Larking, Jean: See—
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- Larko, Robert C., to Sunbeam Corp. Hot ~~car~~ furnace. 3,125,328, 3-17-64, Cl. 263-28.
- Larky, Norbert D., to Space Technology Laboratories, Inc. Position indicator. 3,142,835, 7-28-64, Cl. 340-347.
- Larmore, Frederick D.: See—
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- La Rocca, Aldo V., to General Electric Co. Reaction propulsion system. 3,149,460, 9-22-64, Cl. 60-35.6.
- La Rocca, Rosario S. Electric fencing target for instructing the blind. 3,128,097, 4-7-64, Cl. 273-102.2.
- La Rosa, Richard, to Hazeltine Research, Inc. Matched coupling apparatus. 3,135,924, 6-2-64, Cl. 329-161.
- La Rou, Albert M., to Ford Motor Co. Hydraulic power system. 3,156,098, 11-10-64, Cl. 60-97.
- Larouche, Marcel. Puller for diamond drill rods and the like. 3,137,520, 6-16-64, Cl. 294-113.
- Larpe, Jeannine M. S. (born Corset). Fluid motor and pump having expandable chambers. 3,139,871, 7-7-64, Cl. 123-43.
- Larrick, Howard M., and W. R. Brosch. Automatic sensitivity control for sound actuated detection and alarm systems. 3,155,954, 11-3-64, Cl. 340-261.
- Larrison, Owen D., to Phillips Petroleum Co. Distillation process controlled by the concentration of an impurity in the product streams. 3,156,628, 11-10-64, Cl. 202-40.
- Larsen, Aubrey A., to Sterling Drug Inc. Iodinated esters of substituted benzoic acids and preparation thereof. 3,119,858, 1-28-64, Cl. 262-471.
- Larsen, Aubrey A., to Sterling Drug Inc. 1-(mono-and bis (alkanesulfonamido)benzoyl) hydrazine derivatives and their preparation. 3,124,610, 3-10-64, Cl. 260-501.
- Larsen, Aubrey A., to Sterling Drug Inc. Acylated 3-amino-5-hydroxy-2,4,6-trihydroxybenzoic acid and esters and salts thereof. 3,133,116, 5-12-64, Cl. 260-479.
- Larsen, Aubrey A., and J. O. Hoppe, to Sterling Drug Inc. Alkyl esters of acylated 3,5-diamino-2,4,6-trihydroxybenzoic acids and their preparation. 3,128,301, 4-7-64, Cl. 260-471.
- Larsen, Bendt W., to Danfoss ved. Ing. M. Clausen. Centrifugal separator. 3,149,939, 9-22-64, Cl. 55-204.
- Larsen, Bernard J.: See—
Larsen, Burnham L. and R. J. 3,161,115.
Larsen, Burnham L. and R. J. 3,161,116.
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- Larsen, Elmer: See—
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- Larsen, Elmer J.: See—
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- Larsen, Frank R., to Northrop Corp. Track interlock and safety stop means. 3,124,082, 3-10-64, Cl. 104-98.
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- Larsen, Lester J.: See—
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- Larsen, Ludolph: See—
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- Larsen, Ludolph M., to United States of America, Navy. Large diameter rotating blade and contact assembly. 3,132,218, 5-5-64, Cl. 200-15.
- Larsen, Oscar F., to The National Cash Register Co. Apparatus for positioning and retaining record material. 3,148,758, 9-15-64, Cl. 197-127.
- Larsen, Raymond B., to Uptime Corp. Reading machine. 3,142,749, 7-28-64, Cl. 235-61.11.
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- Larsen, Robert T., to Outboard Marine Corp. Impact absorbing means for marine propulsion. 3,151,597, 10-6-64, Cl. 115-41.
- Larsen, Theodore E., to Minneapolis-Honeywell Regulator Co. Thermally actuated dual magnetic switch with shunt and temperature compensation. 3,130,285, 4-21-64, Cl. 200-138.
- Larsen, Truls O. Devices for circulating air in footwear. 3,142,912, 8-4-64, Cl. 36-3.
- Larsh, Everett P. Balancing apparatus. 3,129,591, 4-21-64, Cl. 73-472.
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- Larsh, Everett P. Actuator assembly. 3,147,631, 9-8-64, Cl. 74-89.
- Larson, Albert D. Bottom hole pump. 3,126,836, 3-31-63, Cl. 103-179.
- Larson, Archie M., Jr.: See—
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- Larson, Arvid. Fishing chair. 3,151,910, 10-6-64, Cl. 297-349.
- Larson, Arvid, to R. L. Jones. Outrigger pole bracket for fishing boats. 3,161,390, 12-15-64, Cl. 248-40.
- Larson, Edwin A.: See—
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- Larson, Ernest T., Jr., to General Aniline & Film Corp. Radiographic film package. 3,124,683, 3-10-64, Cl. 250-68.
- Larson, Frank A., to The Hallcrafters Co. Pipe to plate coupling. 3,148,900, 9-15-64, Cl. 285-159.
- Larson, Gerald W., to Minnesota Mining and Mfg. Co. Pre-sensitized lithographic light-sensitive sheet construction. 3,136,637, 6-9-64, Cl. 96-75.
- Larson, Gustav A., T. F. West, Jr., and W. A. Hanson, to United States of America, Navy. Device for determining the mean height of a waveform. 3,126,639, 3-31-64, Cl. 33-143.
- Larson, Harold A.: See—
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- Larson, Harold A., to Phillips Petroleum Co. Methyl-ethylpyridine-methylvinylpyridine fractionation. 3,151,046, 9-29-64, Cl. 202-46.
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- Larson, Herbert J. Cattle standing heat detector. 3,158,133, 11-24-64, Cl. 119-1.
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- Larson, Lawrence E. Antiskid appliance device for vehicles. 3,122,191, 2-25-64, Cl. 152-225.
- Larson, Leland A., to The Dow Chemical Co. Connections to expanded plastic materials. 3,116,498, 1-7-64, Cl. 9-8.
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- Larson, Louis P., to Riegel Paper Corp. Dispensing carton with reclosable pour spout. 3,147,904, 9-8-64, Cl. 229-17.
- Larson, Olaf A.: See—
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- Larson, Richard C. Heating and cooling plant control system and valves therefor. 3,125,292, 3-17-64, Cl. 236-1.
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- Larson, Robert W., to Beloit Corp. Hydraulically actuated timber shear. 3,122,184, 2-25-64, Cl. 144-34.
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- Larsson, Bjorn E.: See—
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- Larsson, Erik R., to Arencio Aktiebolag. Cigar wrapper. 3,147,755, 9-8-64, Cl. 131-15.
- Larsson, George E., to Auto-Photo Co. Automatic coin-controlled recording apparatus. 3,148,757, 9-15-64, Cl. 194-2.
- Larsson, Gunnar. Tube coupling. 3,149,861, 9-22-64, Cl. 285-349.
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- Larsson, Nils E. B., to Stal Refrigeration Aktiebolag. Safety device for refrigeration compressors. 3,125,285, 3-17-64, Cl. 230-230.
- Larsson, Nils E. B. Valve for machines having a reciprocating piston. 3,136,479, 6-9-64, Cl. 230-229.
- Larsson, Nils F., to Electroflux, Aktiebolaget. Thrust bearing for rotatable shaft. 3,161,447, 12-15-64, Cl. 308-163.
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- Larsson, Per E. A., to General Electric Co. Pressure-divider for hydraulic control. 3,158,168, 11-24-64, Cl. 137-101.
- Larsson, Samuel, to Madras-Fabriken Dux Aktiebolag. Sitting furniture. 3,135,549, 6-2-64, Cl. 297-303.
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- Lary, Edmund C., and R. G. Meyerand, Jr., to United Aircraft Corp. Magneto-hydrodynamic generator. 3,127,528, 3-31-64, Cl. 310-11.
- Lary, Edmund C., R. G. Meyerand, Jr., and R. H. Bullis, to United Aircraft Corp. Conductivity augmentation. 3,139,551, 6-30-64, Cl. 313-63.
- Lary, Edmund C., and R. A. Olson, to United Aircraft Corp. Electrodeless radio frequency conductivity probe for fluids. 3,152,303, 10-6-64, Cl. 324-40.
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- Lassen, Herbert A., and B. A. Wheeler, to Hughes Aircraft Co. Microwave summing and differencing network utilizing stripline cross coupler. 3,140,456, 7-7-64, Cl. 333-9.
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- Lassiter, James T., to E. I. du Pont de Nemours and Co. Production of highly refined hexamethylenediamine. 3,121,671, 2-18-64, Cl. 202-52.
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- Lauder, Alfred E., to Internal Combustion Research Co. Fuel vaporizing assembly. 3,116,988, 1-7-64, Cl. 55-222.
- Lauderdale, Donald M., to United States of America, Navy. Frequency responsive apparatus with dual output filter. 3,158,817, 11-24-64, Cl. 329-119.
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- Leakey, David M., to The General Electric Co. Ltd. Amplitude sensitive termination. 3,143,661, 8-4-64, Cl. 307-88.5.
- Leakey, David M., to The General Electric Co. Ltd. Transistor gating circuits. 3,153,729, 10-20-64, Cl. 307-88.5.
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- Leath, Harry A. Motor. 3,151,529, 10-6-64, Cl. 91-205.
- Leath, Harry A. Rotary internal combustion engine. 3,161,183, 12-15-64, Cl. 123-43.
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- Leavell, Charles. Wheel-equipped suitcase. 3,163,268, 12-29-64, Cl. 190-18.
- Leavengood, William H., and R. D. Thomas, to Central of Georgia Railway Co. Ramp car. 3,153,489, 10-20-64, Cl. 214-85.
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- Lebens, John C., to McGraw-Edison Co. Protectors for electric circuits. 3,118,035, 1-14-64, Cl. 200-119.
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- Le Brell, John, to Alton Box Board Co. Hopper feed for carton blanks. 3,130,967, 4-28-64, Cl. 271-62.
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- Lechner, Walter L., to Monroe Calculating Machine Co. Calculating machine register. 3,145,922, 8-25-64, Cl. 235-1.
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- Le Clerc, John T., and L. F. Alexanderer. Diaper flushing device. 3,117,435, 1-14-64, Cl. 68-181.

- Leclerc, John T., and G. Goehring, 1/2 to J. T. Leclerc, and 1/4 to L. F. Alexander. Method for reproducing images. 3,122,094, 2-25-64, Cl. 101-149.4.
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- Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Multiple vehicle braking apparatus. 3,155,197, 11-3-64, Cl. 188-86.
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- Lee, Herbert C. Shoe. 3,137,950, 6-23-64, Cl. 36-2.5.
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- Lee, James H., to Wedglock Corp. of California. End clamp. 3,155,385, 11-3-64, Cl. 269-236.
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- Lee, John C., Y. E. Mochhala, and H. N. Underwood, to Borg-Warner Corp. Pressure compensated flow control valve. 3,145,734, 8-25-64, Cl. 37-596.13.
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- Lee, John G. W., to The De Havilland Aircraft Co. Ltd. Narrow beam radiation scanned pattern alarm system. 3,120,654, 2-4-64, Cl. 340-258.
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- Lee, Lester H., to General Precision, Inc. Amplitude detector. 3,135,897, 6-2-64, Cl. 317-148.5.
- Lee, Mancel A. Swath gathering mechanism. 3,125,845, 3-24-64, Cl. 56-364.
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- Lee Paul. Dispensing, self-locking closures. 3,162,319, 12-22-64, Cl. 215-74.

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- Lee, Richard C.: See—
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- Lee, Richard J. Shell reloaders. 3,134,293, 5-26-64, Cl. 86-24.
- Lee, Richard J., to The Dow Chemical Co. Method of sealing and folding flanged edges of containers. 3,160,999, 12-15-64, Cl. 53-39.
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- Limberger, Walter, to Lumoprint Zindler K.G. Method for developing films, a device and a material for carrying out this method. 3,142,241, 7-28-64, Cl. 95-89.
- Limberger, Walter, to Lumoprint Zindler K.G. Apparatus for diffusion developing. 3,143,056, 8-4-64, Cl. 95-89.
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- Lindberg, John E., Jr. Method of making heat sensors. 3,153,847, 10-27-64, Cl. 29-400.
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- Lindblad, Stig M. Safety belt buckles. 3,142,103, 7-28-64, Cl. 24-230.
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- Lindenauer, Abraham, to American Cyanamid Co. Process for producing polyester resins using combustion gases to maintain an elevated boil-up rate. 3,127,377, 3-31-64, Cl. 260-75.
- Lindenauer, Abraham, and R. N. Housekeeper, to American Cyanamid Co. Process for producing polyester resins using a sparge of vaporized, normally-liquid, inert, water-immiscible organic solvent to maintain an elevated boil-up rate. 3,127,376, 3-31-64, Cl. 260-75.
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- Linder, Lowell E. Ammunition reloading apparatus. 3,153,976, 10-27-64, Cl. 86-26.
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- Lindemeier, Franz, to M. Hohner, Inc. Mouthpiece operated wind musical instrument with piano keyboard. 3,145,608, 8-25-64, Cl. 84-375.
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- Lindgren, Carl O., and B. Zettergren, to Atlas Copco Aktiebolag. Feeding devices for rock drills. 3,149,540, 9-22-64, Cl. 91-411.
- Lindgren, Erik A. Shielding enclosure. 3,153,692, 10-20-64, Cl. 174-35.
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- Lisbin, Arthur, to New Jersey Bank and Trust Co. Adjustable leg construction. 3,150,853, 9-29-64, Cl. 248-188.4.
- Lisciani, Constantine, to The Protectoseal Co. Fluid transfer system. 3,139,123, 6-30-64, Cl. 141-286.
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- Littwin, Arthur K., to A. K. and R. L. Littwin, and H. A. Young, as trustees. Automatic motor reversing at limit of travel by variable transformer means. 3,129,369, 4-14-64, Cl. 318-282.
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- Ljungberg, Sten H., to Nitroglycerin Aktiebolaget. Apparatus for loading bore-holes in bed-rock with cartridges of explosive. 3,125,925, 3-24-64, Cl. 86-20.
- Ljungberg, Sten H., to Nitroglycerin Aktiebolaget. Device for axial displacement of a pipe, rod or the like elongated member. 3,133,469, 5-19-64, Cl. 86-20.
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- Ljungstrom, Herbert, to Svenska Flaktfabriken, Aktiebolaget. Arrangement in axial fans for the transport of dust commingled gases. 3,139,310, 6-30-64, Cl. 302-37.
- Ljungstrom, Herbert, C. Cederholm, and H. Zetterberg, to Svenska Flaktfabriken, Aktiebolaget. Self-cleaning blower vane structure. 3,144,983, 8-18-64, Cl. 230-132.
- Ljungstrom, Olle, to Svenska Aeroplan Aktiebolaget. Air cushion vehicle. 3,161,171, 12-15-64, Cl. 114-67.
- Lloyd, Allan G., to The Daven Co. Self-oscillatory direct-current to alternating-current inverters with magnetic amplifier controls. 3,161,837, 12-15-64, Cl. 331-113.
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- Shotts, Adolph C., and Lloyd. 3,162,682.
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- Lloyd, William G., to The Dow Chemical Co. Antioxidants for glycol derivatives. 3,146,272, 8-25-64, Cl. 260-611.5.
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- Lloyd-Davies, Llewellyn, to Burrows Mfg. Corp. Tables and the like and adjustable means for leveling the same. 3,137,965, 6-23-64, Cl. 45-139.
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- Lo, Arthur W., to Radio Corp. of America. Magnetic core binary devices. 3,153,778, 10-20-64, Cl. 340-174.
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- Lovell, John E., to International Business Machines Corp. Magnetostriuctive thin film delay line. 3,129,412, 4-14-64, Cl. 340-174.
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- Loven, Carl-Fredrik C. Work station type conveyor. 3,125,204, 3-17-64, Cl. 198-19.
- Lovendusky, Charles M., to AMP Inc. Wire selecting device. 3,126,127, 3-24-64, Cl. 221-210.
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- Borrevang, Poul. 3,132,163.
- Pelt, Peter W. 3,155,702.
- Godfredsen, Wagn O. 3,161,573.
- Godrick, Charles L.: See—
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- Lovering, David W.: See—
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- Lovers, Guy J., to Metropolitan Welding Fabricators, Inc. Mold for concrete structures. 3,142,882, 8-4-64, Cl. 25-124.
- Loverude, Thomas H.: See—
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- Lovett, Albert E.: See—
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- Lovett, Gordon H., and E. M. Jones, to Monsanto Chemical Co. Dehydrogenation of alkylated aromatic hydrocarbons. 3,118,006, 1-14-64, Cl. 260-669.
- Lovett, Richard N.: See—
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- Hayden, Kenneth F., and Lovett. 3,125,506.
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- Lovette, Henry H. Combination mattress and bed bottom. 3,154,797, 11-3-64, Cl. 5-320.
- Lovette, Jeremiah B. Automatic Mullen tester or burst tester. 3,160,002, 12-8-64, Cl. 73-102.
- Lovgren, Anders E., to Robert Krups. Beater. 3,154,297, 10-27-64, Cl. 259-134.
- Lovisek, Louis J., to General American Transportation Corp. Methods of making combination recess-forming and head-forming punches. 3,124,975, 3-17-64, Cl. 76-101.
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- Low, Frank D., to General Electric Co. Control circuit for clothes washing machine. 3,140,595, 7-14-64, Cl. 68-12.
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- Low, Paul R., and R. Rice, to International Business Machines Corp. Exclusive or photoresponsive logical circuits. 3,157,792, 11-17-64, Cl. 250-210.
- Low, Robert, to Tektronix, Inc. Coating method and apparatus for notches and other surface discontinuities. 3,121,020, 2-11-64, Cl. 117-95.
- Lowdermilk, Ford R., to Pennsalt Chemicals Corp. Hydrochloride recovery and purification from gases containing hydrogen fluoride. 3,140,916, 7-14-64, Cl. 23-154.
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- Lowie, Edwin C., to Norton Co. Hexagonal silicon carbide crystals produced from an elemental silicon vapor deposited onto a carbon plate. 3,147,159, 9-1-64, Cl. 148-174.
- Lowie, Jack M.: See—
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- Lowie, Joe Corp.: See—
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- Lowie, Leonard F., to The Patterson-Kelley Co., Inc. Temperature controlling fluid storage system. 3,133,590, 5-19-64, Cl. 165-39.
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- Lowie, Ronald C., and T. L. Hughes, to Joseph Lucas (Industries) Ltd. Semi-conductor devices. 3,143,444, 8-4-64, Cl. 148-188.
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- Lowell, Arthur L., and O. L. Magell, to Wallace & Tierman Inc. Polymerization of polyvinyl acetate with an initiator of t-butyl peroxyvalerate and subsequent hydrolysis to produce polyvinyl alcohol. 3,121,705, 2-18-64, Cl. 260-91.3.
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- Lowell, Norman, to Sperry Rand Corp. Landing system for aircraft. 3,126,175, 3-24-64, Cl. 244-77.
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- Lowen, Stanley. Container closure. 3,143,235, 8-4-64, Cl. 215-40.
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- Lowenstein, Mark G.: See—
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- Lowes, Fred J., to The Dow Chemical Co. Mild alkaline oxidation treatment of acrylonitrile polymer fibers or films to improve flexibility and dyeability. 3,127,232, 3-31-64, Cl. 8-111.
- Lowes, Fred J., Jr., to The Dow Chemical Co. Process of producing non-fibrillating acrylonitrile polymer filaments. 3,129,273, 4-14-64, Cl. 264-182.
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- Lowey, Roy E.: See—
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- Lowman, Jefferson S., III. Variable lift aircraft wing pivotally mounted for movement about a skewed longitudinal axis. 3,153,523, 10-20-64, Cl. 244-46.
- Lowman, Walker B., to Industrial Nucleonics Corp. Measuring and controlling system. 3,147,370, 9-1-64, Cl. 235-151.
- Lowndes, George: See—
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- Lowrie, Harman S., to G. D. Searle & Co. 4-(hydroxyalkyl cyclic amino)-propyl-2-phenyl-3,4-dihydro-2H-1,4-benzothiazines. 3,124,577, 3-10-64, Cl. 260-243.
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- Lowrie, Harman S., to G. D. Searle & Co. 2-hydrazinoquinoline hydrazone with 1-methyl-4-piperidone and related compounds. 3,152,133, 10-6-64, Cl. 260-288.
- Lowry, George W., to Overstrom & Sons, Inc. Snubber for vibrating screens. 3,123,552, 3-3-64, Cl. 209-326.
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- Lowry, John C., to National Distillers and Chemical Corp. Dispensing holders for stacks of bags. 3,145,839, 8-25-64, Cl. 206-57.
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- Lowry, Terrell N., to Bell Telephone Laboratories, Inc. Magnetically controlled switching devices. 3,141,079, 7-14-64, Cl. 200-87.
- Lowry, Terrell N., to Bell Telephone Laboratories, Inc. Supervisory circuit for telephone subscriber's line. 3,157,746, 11-17-64, Cl. 179-18.
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- Lowther, John R. Swimming pool lighting setup. 3,116,584, 1-7-64, Cl. 24-26.
- Lox, Walter E., and E. S. Beck, to Enterprise Paint Mfg. Co. Modified high molecular weight polyvinyl chloride resin coatings for metal, composition and method of coating. 3,137,666, 6-16-64, Cl. 260-19.
- Loxham, John, to National Research Development Corp. Drives for gear grinding machines. 3,152,422, 10-13-64, Cl. 51-52.
- Loy, Fred W., and W. J. Baker, to Gardner-Denver Co. Wire wrapping device. 3,117,736, 1-14-64, Cl. 242-7.
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- Loyd, Samuel A.: See—
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- Loyd, Samuel A., Jr., to Acme Visible Records, Inc. Book holder. 3,123,934, 3-10-64, Cl. 45-81.
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- Luberoff, Benjamin J., and W. D. Gersumky, to American Cyanamid Co. Novel initiators for N-vinyl amide polymerization. 3,162,625, 12-22-64, Cl. 260-88.3.
- Lubkin, Samuel, to Curtiss-Wright Corp. Method of manufacture of multiple magnetic head units. 3,120,696, 2-11-64, Cl. 29-155.5.
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- Lubow, Myron. Rotary bending machine. 3,125,150, 3-17-64, Cl. 153-19.
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- Lubrillite Corp.: See—
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- Higgins, William A. 3,133,838.
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- Le Suer, William M. 3,158,640.
- Le Suer, William M. 3,163,603.
- Martin, Thomas W., Norman, and Le Suer. 3,143,507.
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- Palm, Bert E. 3,144,360.
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- Towle, Alfred, and Anderson. 3,120,429.
- Lubus, Joseph J.: See—
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- Lowell, John O., to Ripley Industries, Inc. Plural die elements surrounded by single stripper pad means with work gauge overlying stripper. 3,129,623, 4-21-64, Cl. 83-133.
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- Lowery, Charles E., Jr.: See—
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- Lowman, Walker B., to Industrial Nucleonics Corp. Measuring and controlling system. 3,147,370, 9-1-64, Cl. 235-151.
- Lowndes, George: See—
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- Lowrie, Harman S.: See—
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- Lowry, John C., to National Distillers and Chemical Corp. Dispensing holders for stacks of bags. 3,145,839, 8-25-64, Cl. 206-57.
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- Lowry, Robert D.: See—
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- Kirkpatrick, Wyle C., Harrison, and Lowry. 3,127,760.
- Lowry, Terrell N.: See—
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- Lowry, William K. Citrus fruit peeling tool. 3,149,417, 9-22-64, Cl. 30-24.
- Lowther, John R. Swimming pool lighting setup. 3,116,584, 1-7-64, Cl. 24-26.
- Lox, Walter E., and E. S. Beck, to Enterprise Paint Mfg. Co. Modified high molecular weight polyvinyl chloride resin coatings for metal, composition and method of coating. 3,137,666, 6-16-64, Cl. 260-19.
- Loxham, John, to National Research Development Corp. Drives for gear grinding machines. 3,152,422, 10-13-64, Cl. 51-52.
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- Loyd, Samuel A.: See—
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- Lubben, George F., J. J. Schauble, and G. A. McCoubrey, to Kaman Aircraft Corp. Helicopter rotor and method of making a blade member thereof. 3,144,907, 8-18-64, Cl. 170-160.25.
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- Luberoff, Benjamin J.: See—
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- Luberoff, Benjamin J., and W. D. Gersumky, to American Cyanamid Co. Novel initiators for N-vinyl amide polymerization. 3,162,625, 12-22-64, Cl. 260-88.3.
- Lubkin, Samuel, to Curtiss-Wright Corp. Method of manufacture of multiple magnetic head units. 3,120,696, 2-11-64, Cl. 29-155.5.
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- Lubow, Myron. Rotary bending machine. 3,125,150, 3-17-64, Cl. 153-19.
- Lubowitz, Hyman R.: See—
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- Lubrillite Corp.: See—
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- Lucas, James E.: See—
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- Lucas, James W. Multi-purpose projection device. 3,124,035, 3-10-64, Cl. 88—24.
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- Lund, John A. H., and V. Silins, to Sherritt Gordon Mines Ltd. Method for compacting metal powder. 3,162,708, 12-22-64, Cl. 264-111.
- Lund, Tim: See—
- Pridgeon, Clifford W., Gustafson, Lund, and Huttner. 3,157,295.
- Lundahl, Lars O., to Svenska Aktiebolaget Gasaccumulator. Magnetic amplifier. 3,131,360, 4-28-64, Cl. 330-8.
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- Holm, Torkil O., and Kopf. 3,143,463.
- Lundberg, Charles W.: See—
- Kristensen, Paul A., Rossing, and Lundberg. 3,136,929.
- Lundberg, John E.: See—
- Alcott, Rollin A., and Lundberg. 3,138,685.
- Lundberg, John E., to Minneapolis-Honeywell Regulator Co. Burner control apparatus. 3,126,940, 3-31-64, Cl. 158-28.
- Lundberg, Lennart A., to American Cyanamid Co. Monoesters and di-esters of cyanuric halides and methods of preparing same. 3,127,399, 3-31-64, Cl. 260-248.
- Lundberg, Raymond E.: See—
- Eige, John J., Lundberg, and Woodworth. 3,143,396.
- Lunde, Sigurd. Window. 3,122,799, 3-3-64, Cl. 20-53.
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- Lundeen, Stanley A. Metering valve for a water softening system. 3,152,607, 10-13-64, Cl. 137-505.13.
- Lundeen, Warner S. Scaffold. 3,156,317, 11-10-64, Cl. 182-16.
- Lundell, Arnold W. Locking means for meat chopper. 3,125,144, 3-17-64, Cl. 146-182.
- Lundell, Vernon J., to Massey-Ferguson Services N.V. Wafering machine ejecting mechanism. 3,134,344, 5-26-64, Cl. 107-14.
- Lundell, Vernon J., to Massey-Ferguson Services N.V. Fluid supplying arrangement for wafering machines. 3,163,131, 12-29-64, Cl. 107-14.
- Lunden, Clarence D., to Boeing Airplane Co. Electromagnetic wave guide of lunate cross section. 3,136,965, 6-9-64, Cl. 333-95.
- Lundgren, Evert G., to Sandvikens Jernverks Aktiebolag. Tool holder. 3,156,031, 11-10-64, Cl. 29-96.
- Lundgren, Evert G., to Sandvikens Jernverks Aktiebolag. Cutting insert and tool holder therefor. 3,156,032, 11-10-64, Cl. 29-96.
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- Lundin, Ingvar O. V.: See—
- Rosenqvist, Sven O., Lundin, and Egnell. 3,150,980.
- Lundin, Johan G., and P. O. S. Penngard. Apparatus for the application of wax onto grinding, polishing wheels and the like. 3,143,204, 8-4-64, Cl. 239-135.
- Lundin, Robert S., to General Time Corp. Synchronous timing motor assembly. 3,142,774, 7-28-64, Cl. 310-83.
- Lundquist, Ingemar H.: See—
- Schaerer, Willy, and Lundquist. 3,133,700.
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- Lundquist, Roy W. Shrubbery trimmer. 3,143,798, 8-11-64, Cl. 30-166.
- Lundquist, Wilton G. Expandable fluid engine. 3,147,669, 9-8-64, Cl. 91-184.
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- Anderson, Samuel P., and Lundsager. 3,163,691.
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- Hill, Thomas G. 3,144,222.
- Lunenburg, Lennart O. L. E., and R. F. A. Jansson. Synthetic resinous compositions comprising a chlorinated diphenyl and solutions of lacquers and paints made thereof. 3,135,709, 6-2-64, Cl. 260-21.
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- Lunsford, William. 3,117,880.
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- Lupfer, Dale E., to Phillips Petroleum Co. Stream blending method and apparatus. 3,135,277, 6-2-64, Cl. 137-3.
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- Lehr, Philip N., and Lupia. 3,159,717.
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- Lupo, Fritz J., to Feedmatic-Detroit, Inc. Pneumatic nut elevator. 3,163,324, 12-29-64, Cl. 221-68.
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- Lupovici, David. Hot liquid dispenser. 3,143,636, 8-4-64, Cl. 219-314.
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- Lurey, Emanuel R., to E. R. Lurey Co. Display rack with vertically adjustable shelves. 3,161,158, 12-15-64, Cl. 108-2.
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- Luscher, Jakob. System having integrated-circuit semiconductor device therein. 3,137,796, 6-16-64, Cl. 307-88.5.
- Luscombe, Arthur. Feed mixer apparatus. 3,133,727, 5-19-64, Cl. 259-8.
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- Lush, Gerald B., and E. L. Leaf, to Boots Pure Drug Co. Ltd. Herbicidal composition and method. 3,151,970, 10-6-64, Cl. 71-2.6.
- Lush, Morley J. High frequency thermocouple voltmeter. 3,128,428, 4-7-64, Cl. 324-95.
- Lusk, William H., to Clayton & Lambert Mfg. Co. Top leveler for grain storage bins and the like. 3,129,828, 4-21-64, Cl. 214-17.
- Luskin, Bernard, to Littton Systems, Inc. Precisional navigational orientation. 3,133,439, 5-19-64, Cl. 73-178.
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- Lustig, Howard E., A. L. Rossot, P. D. Frelich, and H. K. Farr, to General Instrument Corp. Radiation mapping system. 3,144,631, 8-11-64, Cl. 340-3.
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- Luten, Daniel B., Jr., and R. E. Meeker, to Shell Oil Co. Hydrogen peroxide purification. 3,156,531, 11-10-64, Cl. 23-207.
- Lutes, Olin S., to Minneapolis-Honeywell Regulator Co. Superconductive temperature control. 3,119,236, 1-28-64, Cl. 62-3.
- Lutgerhorst, Albertus G., to Onderzoekingsinstituut Research, N.V. Dyeing polypropylene. 3,157,457, 11-17-64, Cl. 8-4.
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- Luther, Arch C., Jr., R. N. Hurst, and J. R. West, to Radio Corp. of America. Servo system. 3,141,065, 7-14-64, Cl. 178-66.
- Luther, Glenn C. Machine for making and applying reinforcing patches to ring book sheets. 3,122,067, 2-25-64, Cl. 93-1.
- Luther, Karl, G. C. J. Parent, and W. W. Bulgrin, to The Firestone Tire & Rubber Co. Sheet feeding, punching and disk stacking equipment for the manufacture of wheel disks or the like. 3,143,015, 8-4-64, Cl. 83-91.
- Luther, Martin W., to Sun Oil Co. Liquid stream analyzing apparatus. 3,120,119, 2-4-64, Cl. 73-17.
- Luther, Martin W., to Sun Oil Co. Apparatus for measuring distillation point of a liquid stream. 3,133,436, 5-19-64, Cl. 73-17.
- Luther, Roger R.: See—
- Strauberg, Don F., and Luther. 3,142,503.
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- Luther, William P., to John Oster Mfg. Co. Electric motor for hand held appliance. 3,119,942, 1-28-64, Cl. 310-50.
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- Lütke, Klaus, to VEB Leuna-Werke Walter Albricht. Densimeters. 3,126,745, 3-31-64, Cl. 73-453.
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- Lutsky, Arthur A., to The Wilcolator Co. Thermal sensing element. 3,163,044, 12-29-64, Cl. 73-368.
- Luttinger, Lionel B., to American Cyanamid Co. Catalyst system for linear and cyclic polymerization of mono substituted acetylenes. 3,131,155, 4-28-64, Cl. 252-428.
- Luttinger, Lionel B., to American Cyanamid Co. Polymerization of conjugated diolefins using nickel complexes and metal hydrides as catalyst. 3,148,224, 9-8-64, Cl. 260-666.
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- Lutts, William M., Sr., and L. K. Tallafiero, Sr., to Louisville and Nashville Railroad Co. Longitudinal sectional door operating shaft. 3,161,146, 12-15-64, Cl. 105-240.
- Lutwack, Ralph, to Shell Oil Co. Organic functional fluids and polymeric amine salt additives therefor. 3,159,578, 12-1-64, Cl. 252-32.7.
- Lutwack, Wilton J. Portfolio made of paper. 3,129,872, 4-21-64, Cl. 229-72.
- Lutz, Albert W., R. G. Child, and B. L. Walworth, to American Cyanamid Co. Controlling undesirable plant growth. 3,155,488, 11-3-64, Cl. 71-2.5.
- Lutz, Eugene F., to Marathon Oil Co. Preparation of 1,2,4,5-tetraalkyl-benzenes from pseudocumene and propylene. 3,132,189, 5-5-64, Cl. 265-671.
- Lutz, Friedrich, P. Stucki, and H. Merkl, to Ruti Machinery Works Ltd., formerly Caspar Honegger. Mechanism for feeding the web-bobbins to the automatic bobbin-change of a mechanical loom. 3,122,268, 2-25-64, Cl. 221-13.
- Lutz, Herbert S., to International Process & Product Development Corp. Tooth cleaning device. 3,124,824, 3-17-64, Cl. 15-227.
- Lutz, Kenneth V. Rock crusher jaw. 3,156,421, 11-10-64, Cl. 241-217.
- Lutz, William A., to Dorr-Oliver Inc. Cooling and defoaming phosphoric acid slurries. 3,148,948, 9-15-64, Cl. 23-165.
- Lutz, Wilson B.: See—
- Meltzer, Robert I., and Lutz. 3,120,540.
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- Lutze, Walter, and O. Roder, to Daimler-Benz Aktiengesellschaft. Hydrodynamic coupling. 3,136,129, 6-9-64, Cl. 60-54.
- Lutzen, William C. Flow control means for annular passages. 3,125,872, 3-24-64, Cl. 68-144.
- Lutzwelt, Walter F., and O. W. Niemi, to Xerox Corp. Automatic powder applicator apparatus. 3,129,113, 4-14-64, Cl. 118-6.
- Luvist, John P., to Universal Oil Products Co. Preparation of N-(haloalkyl) amines. 3,121,744, 2-18-64, Cl. 260-577.
- Luvist, John P., to Universal Oil Products Co. Hydrogenation of nitrohaloaromatic compounds. 3,150,185, 9-22-64, Cl. 260-576.
- Luvist, John P., to Universal Oil Products Co. Polyoxalkylene glycol monoethers of halocycloalkenic derivatives of salicylaldehydes. 3,154,587, 10-27-64, Cl. 260-600.
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- Lybeck, Alvin H., to American Enka Corp. Insulating composition containing polyvinyl chloride, triallyl cyanurate, a filler, and a flame retardant. 3,141,850, 7-21-64, Cl. 252-63.5.
- Lyehyk, George S., and A. Talliste, to Automatic Electric Laboratories, Inc. Mounting lugs and bobbin for dry reed relays. 3,123,356, 4-7-64, Cl. 200-87.
- Lyday, Richard W., and C. L. Moorman, to General Motors Corp. Fastener assembly apparatus. 3,139,674, 7-7-64, Cl. 29-208.
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- Wells, Frederick H., and Lyde. 3,161,575.

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- Lyle, Aaron K., to Emhart Mfg. Co. Glass furnace batch charging apparatus and control means therefor. 3,127,033, 3-31-64, Cl. 214-18.
- Lyle, Charles A., to Combustion Engineering, Inc. Rotary regenerative heat exchanger. 3,126,946, 3-31-64, Cl. 165-7.
- Lyle, Frederick J., to Spring Packing Corp. Stop construction. 3,151,916, 10-6-64, Cl. 308-38.
- Lyle, Harold M. Ornithopter type aircraft. 3,161,376, 12-15-64, Cl. 244-20.
- Lyle, Lewis E. W. Kicking game apparatus comprising a platform and numbered cubes to be kicked therefrom. 3,118,675, 1-21-64, Cl. 273-108.
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- Lyman, Brooks, and N. C. Coleman, to Pitney-Bowes, Inc. Printing device. 3,125,951, 3-24-64, Cl. 101-250.
- Lyman, Frank, Jr., and W. H. West, to Cambridge Thermionic Corp. Patch panel press. 3,129,044, 4-14-64, Cl. 339-18.
- Lyman, Harold T., F. G. Mason, and J. C. Jaqua, to Aladdin Industries, Inc. Ultra high frequency tuner having rectilinearly sliding plates providing variable inductance and capacitance. 3,156,884, 11-10-64, Cl. 334-68.
- Lyman, John B., and W. E. Lind, to Whirlpool Corp. Liquid spray apparatus. 3,144,034, 8-11-64, Cl. 134-176.
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- Lynam, John E., to Automatic Braiding Co. (Nottingham) Ltd. Apparatus for the production of composite elastic banding. 3,118,803, 1-21-64, Cl. 156-438.
- Lynam, Joseph P. Sea water conversion apparatus. 3,152,053, 10-6-64, Cl. 202-173.
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- Lynch, Robert W., to McCormick Selph Associates, Inc. Seal for electrical terminal assemblies. 3,134,230, 5-26-64, Cl. 60-39.82.
- Lynch, Thomas J., to United Aircraft Corp. Pulse duration modulator. 3,147,440, 9-1-64, Cl. 332-12.
- Lynch, Thomas J., to United Aircraft Corp. Shift-register stage employing pair of cascade-connected transistors to discharge storage capacitor to thereby set flip-flop. 3,154,698, 10-27-64, Cl. 307-88.5.
- Lynch, Vincent E., to Jolyn Electronics Mfg. Corp. Cutting device. 3,145,606, 8-25-64, Cl. 83-577.
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- Lynch, William R., to Republic Industrial Corp. Sealing strip with foamed-in-place filler. 3,159,886, 12-8-64, Cl. 20-69.
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- Malone, Billy C. 3,160,211.
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- Lynn, Edwin W., to Celluloplastics, Inc. Hanging cap and container combination. 3,119,541, 1-28-64, Cl. 229-5.5.
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- Brotherton, Thomas K., and Lynn. 3,162,673.
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- Lynn, John W., R. L. Roberts, and S. W. Tinsley, to Union Carbide Corp. Epoxy esters of polycarboxylic acids. 3,122,568, 2-25-64, Cl. 260-348.
- Lynn, John W., and T. K. Brotherton, to Union Carbide Corp. Unsaturated isocyanates and process for preparation. 3,141,900, 7-21-64, Cl. 260-453.
- Lynn, John W., and B. D. Ash, to Union Carbide Corp. Process for purification of N-alkyl-N-vinyl amides. 3,144,396, 8-11-64, Cl. 202-42.
- Lynn, Lawrence B., to Westinghouse Electric Corp. Electric motor bearing lubrication system. 3,148,006, 9-8-64, Cl. 308-127.
- Lynn, Philip F., to Sylvania Electric Products Inc. Filament forming apparatus. 3,163,186, 12-29-64, Cl. 140-71.5.
- Lynn, Rice P. Apparatus for producing carbon black. 3,150,933, 9-29-64, Cl. 23-259.5.
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- Lyon, Floyd, and T. Aronson, to United States of America, Navy. Photographic mission simulator. 3,131,487, 5-5-64, Cl. 35-12.
- Lyon, Floyd A., and C. R. Konazewski, to Halm Industries Co., Inc. Booklet feeding means. 3,131,930, 5-5-64, Cl. 271-29.
- Lyon, Floyd A., and C. R. Konazewski, to Halm Instrument Co., Inc. Rotary capping means. 3,137,929, 6-23-64, Cl. 294-203.
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- Lyon, Gilbert T. Shielded hose coupling and assembly. 3,120,966, 2-11-64, Cl. 285-116.
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- Judd, John S. 3,145,062.
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- Lyon, James. Portable hand operated beak cutter and cauterizer for fowl and the like. 3,136,315, 6-9-64, Cl. 128-303.1.
- Lyon, James E. Filler wad for shotgun shells. 3,120,807, 2-11-64, Cl. 102-42.
- Lyon, John K., and G. Potapenko. Pressurized dispenser having a valve with a measuring chamber. 3,126,132, 3-24-64, Cl. 222-355.
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- MacLeod, Donald A., to American Telephone and Telegraph Co. Call distributing circuit. 3,142,728, 7-28-64, Cl. 179-27.
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- MacMillan, Robert E., to The Delman Co. Pressure operated switch and actuator combination. 3,149,213, 9-15-64, Cl. 200-83.
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- Madany, George H., to V. D. Jarvis. Centrifugal extractor. 3,133,880, 5-19-64, Cl. 233-15.
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- Mandolac, Dominick A. Fish rod holder and foot trip. 3,126,180, 3-24-64, Cl. 248-41.
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- Manea, Sebastian. Game. 3,121,566, 2-18-64, Cl. 273-131.
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- Manley, John C., to Corning Glass Works. Apparatus for feeding powder. 3,149,759, 9-22-64, Cl. 222-193.
- Manly, Donald G., J. P. O'Halloran, and F. J. Rice, Jr., to The Quaker Oats Co. Production of piperidine and substituted piperidines from tetrahydrofurfuryl alcohol. 3,163,652, 12-29-64, Cl. 260-293.2.
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Salgado, Alvaro, and Manyak. 3,124,550.
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- Marker, Hannes. Retaining device for tensioning cable of ski binding. 3,155,398, 11-3-64, Cl. 280-11.35.
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- Markoff-Moghadam, Leo. Safety clip. 3,148,425, 9-15-64, Cl. 24-161.
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- Maroth, Arthur M. Mechanical transmission. 3,139,772, 7-7-64, Cl. 74-800.
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- Felton, Bruce C., Hoffman, and Martello. 3,122,724.
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- Martens, Charles H., to United States of America, Army. High energy forming process. 3,156,039, 11-10-64, Cl. 29-421.
- Martens, Gunther, and G. Wolf, to Kienzle Apparate G.m.b.H. Magnetic core matrix accumulator. 3,118,056, 1-14-64, Cl. 235-160.
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- Martens, Herbert A., to The Cross Co. Multiple tool condition detecting system. 3,133,457, 5-19-64, Cl. 77-5.
- Martens, Jack E., to The Anderson Co. Adjustable holding mechanism. 3,127,783, 4-7-64, Cl. 74-424.8.
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- Martin, Charles F., 25% to W. J. Cooper. Liquid mixing device. 3,147,957, 9-8-64, Cl. 259-96.
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- Martin, Harold B., to The Thomas & Betts Co. Polytetrafluoroethylene insulated splice connector. 3,143,595, 8-4-64, Cl. 174-84.
- Martin, Harry, to Permanent Hair Waving Corp. Compositions suitable for hair curling. 3,148,126, 9-8-64, Cl. 167-87.1.
- Martin, Heinz, and H. Vogt, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor rectifier device for electric machines. 3,160,771, 12-8-64, Cl. 310-68.
- Martin, Henry, to Ciba Ltd. Preparations for combating phytopathogenic microorganisms. 3,151,023, 9-29-64, Cl. 167-30.
- Martin, Henry, and H. Aebi, to Ciba Ltd. Herbicidal composition containing as the active ingredient a phenyl ether urea. 3,119,682, 1-28-64, Cl. 71-2.6.
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- Martin, Henry E., to United Aircraft Corp. Speed responsive control system. 3,119,055, 1-21-64, Cl. 318-452.
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Matsch, Ladislav C., E. F. Yendall, W. H. Lauer, and H. Koehn,
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Matson, Howard J., to Sinclair Research Inc. Lubricating
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Matson, Howard J., to Sinclair Research Inc. Synthetic
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Matsubayashi, Kanji, and O. Fukushima, % to Kurashiki
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Ayers, John S. 3,125,950.
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- Mattingly, Lawrence J., to Motorola, Inc. Gain controlled frequency modulation detector system. 3,122,708, 2-25-64, Cl. 329-169.
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- Mattingly, Virdean R. Method of repairing high pressure slush pumps. 3,145,461, 8-25-64, Cl. 29-402.
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- Mattox, William J., to Esso Research and Engineering Co. Desulfurization process. 3,128,155, 4-7-64, Cl. 23-284.
- Mattox, William J., and E. M. Gladrow, to Esso Research and Engineering Co. Catalytic process. 3,121,754, 2-18-64, Cl. 260-672.
- Mattox, William J., C. N. Kimberlin, Jr., and Z. W. Wilchinsky, to Esso Research and Engineering Co. Hydrocarbon desorption process. 3,160,581, 12-8-64, Cl. 208-310.
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- Mattson, Charles A., G. W. Schleicher, and F. O. Ottosen, deceased (H. Ottosen, executrix), to Sunbeam Corp. Grass catcher for rotary lawn mower. 3,143,842, 8-11-64, Cl. 56-202.
- Mattson, Clarence H., to Radio Corp. of America. Cathode-grid assembly for electron guns. 3,128,407, 4-7-64, Cl. 313-82.
- Mattson, Elvin and A. D. Cultivator shield device. 3,155,169, 11-3-64, Cl. 172-512.
- Mattson, Guy C., to The Dow Chemical Co. Germicidal compositions. 3,152,039, 10-6-64, Cl. 167-31.
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- Mattson, John R., to Minnesota Mining and Mfg. Co. Copolymers of diallyl barbituric acids and sulfur dioxide. 3,134,756, 5-26-64, Cl. 260-79.3.
- Mattson, Robert E., to Joseph Bancroft & Sons Co. Method for space dyeing yarn. 3,135,039, 6-2-64, Cl. 28-75.
- Mattson, Rodney A., to General Electric Co. X-ray analyzer system with ionization detector containing nitrogen, helium and a low atomic number of quenching gas. 3,126,479, 3-24-64, Cl. 250-51.5.
- Mattson, Roy D. and J. R. Outboard motor apparatus. 3,153,397, 10-20-64, Cl. 115-17.
- Mattsson, Melte K. E., and R. O. Holm, to Svenska Metallverken, Aktiebolaget. Method for applying green patina to objects, preferably made from copper or copper alloys. 3,152,927, 10-13-64, Cl. 148-614.
- Matulis, Joseph J., to Minneapolis-Honeywell Regulator Co. Electrical programming apparatus. 3,142,813, 7-28-64, Cl. 338-201.
- Matturi, Rodolphe G., and C. Bellotti. Convertible boat hull. 3,129,443, 4-21-64, Cl. 9-2.
- Matuschowitz, Richard K., to Chemetron Corp. Injection of solid material into molten metal. 3,157,492, 11-17-64, Cl. 75-51.
- Matuschkovitz, Richard K., and H. J. Christensen, to Chemetron Corp. Purification of metals. 3,124,450, 3-10-64, Cl. 75-57.
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- Matuszak, Alfred H., and S. J. Metro, to Esso Research and Engineering Co. Synthetic lubricating oil. 3,126,403, 3-24-64, Cl. 260-448.2.
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- Matz, George C., to Swiss Knitting Co., Inc. Method of knitting a fabric having jersey knit and rib knit portions. 3,134,249, 5-26-64, Cl. 66-148.
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- Eckert, John P., Jr., and Mauchly. 3,120,606.
- Eckert, John P., Jr., and Mauchly. 3,149,285.
- Mauck, Randall L.: See—
- McKeever, James K., and Mauck. 3,118,541.
- Mauck, Robert J., 1/2 to Dr. R. V. Fisher. Socket wrench having magnetic nut-holding means. 3,143,595, 8-25-64, Cl. 81-125.
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- Maud, Fred, and T. Horne, to The Budd Co. Irradiation vault. 3,132,251, 5-5-64, Cl. 250-106.
- Mauderer, Ewald, to Elba-Werk, Ettlinger Baumaschinen-und Hebezeugfabrik G.m.b.H. Apparatus for distributing and weighing of goods in bulk. 3,136,434, 6-9-64, Cl. 214-109.
- Mauduech, Robert, and R. Gouttebel, to Automatic Electric Laboratories, Inc. Eccles-Jordan flip-flop with closed ferrite cores in the cross coupling paths. 3,140,404, 7-7-64, Cl. 307-88.5.
- Mauer, Helmut H. Aquatic vehicle. 3,158,129, 11-24-64, Cl. 115-70.
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- Mauget, James J. Plant injection device. 3,124,904, 3-17-64, Cl. 47-57.5.
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- Maure, Douglas R., to Telemetrics, Inc. Synchronous clock pulse generator. 3,142,802, 7-28-64, Cl. 328-55.
- Maurer, Carl M., to Kartonax GmbH. Ball game. 3,118,673, 1-21-64, Cl. 273-85.
- Maurer, Charly: See—
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- Maurer, Elmer W., A. J. Stilton, and J. K. Weil, to United States of America, Agriculture. Preparation of long chain alkylsulfuric acids and salts thereof. 3,133,946, 5-19-64, Cl. 260-439.
- Maurer, Gisela H., M. Brandmeier, and G. K. Lichtner, to Marg Maschinenbau G.m.b.H. Transport mixer for concrete and other building material. 3,126,197, 3-24-64, Cl. 259-161.
- Maurer, John A., to Chicago Aerial Industries, Inc. Focal plane shutter mechanism. 3,133,486, 5-19-64, Cl. 95-57.
- Maurer, John A., and K. R. Lappin, to The Weber Dental Mfg. Co. Syringe construction. 3,137,297, 6-16-64, Cl. 128-173.1.
- Maurer, Michael H., to Chemical Construction Corp. Sulfuric acid process. 3,147,074, 9-1-64, Cl. 23-168.
- Maurer, Richard E.: See—
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- Maurer, Waldemar, K. Koch, and E. Eisinger, to Dynamit Nobel Aktiengesellschaft. Target practice ammunition of thermoplastic material. 3,146,712, 9-1-64, Cl. 102-41.
- Maurice, Jean, to Francaise du Ferdo, Societe Anonyme. Clutch with elastic washer. 3,130,828, 4-28-64, Cl. 192-66.
- Maurice, Jean, to du Ferodo Francaise, Societe Anonyme. Diaphragm clutch with de-clutching ring. 3,160,253, 12-8-64, Cl. 192-89.
- Maurits, Orville C., and E. J. Krook. Articulating faceplate for a door latch. 3,142,506, 7-28-64, Cl. 292-337.
- Maurushat, Joseph, Jr., and N. A. Newell, to Bell Telephone Laboratories, Inc. Automatic test equipment for multi terminal communication systems. 3,138,670, 6-23-64, Cl. 179-175.3.
- Maury, Alfred D., and C. M. Lyon, to Martin Automatic Fishing Reel Co., Inc. Fishing reel. 3,152,771, 10-13-64, Cl. 242-84.2.
- Maury, Robert R. Radiant energy sterilizer lamp for therapeutic hydrotherapy bath tanks. 3,134,897, 5-26-64, Cl. 250-42.
- Maus, Otfried G. H.: See—
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- Mazura, Louis P., to Talon, Inc. Automatic lock slider assembling machine. 3,138,852, 6-30-64, Cl. 29-208.
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- McAfee, Richard J., and C. Steckle, to United States Steel Corp. Rope drive for swinging boom of a jib crane. 3,144,136, 8-11-64, Cl. 212-66.
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- McClain, Michael J., E. E. Reese, and T. E. Stark, to General Motors Corp. Windshield wiper arm. 3,131,412, 5-5-64, Cl. 15-250.35.
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- McClure, Glenn T., and T. F. Hursen, to Westinghouse Air Brake Co. Railway brake control valve device with continual quick service feature. 3,160,447, 12-8-64, Cl. 303-83.
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- McClure, Robert E., and D. A. Shermer, to Olin Mathieson Chemical Corp. Process for preparing 2-mercapto-pyridine-N oxide. 3,159,640, 12-1-64, Cl. 260-294.8.
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- McClure, Thomas V., J. McNutt, H. L. Morgan, and R. E. Oberholtzer, to James Lees and Sons Co. Method for dyeing and treating textile material. 3,137,056, 6-16-64, Cl. 28-75.
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- McCombs, Howard L., Jr., to The Bendix Corp. Gas turbine load sharing system. 3,159,000, 12-1-64, Cl. 60-39.15.
- McConaghy, James W., to The F. E. Myers & Bro. Co. Submersible pump. 3,158,295, 11-24-64, Cl. 222-333.
- McConeghey, William J., to E. I. du Pont de Nemours and Co. Coating composition, coated polyoxymethylene, and process for coating polyoxymethylene. 3,141,789, 7-21-64, Cl. 117-73.
- McConkie, Howard S. Tire valve stem. 3,134,418, 5-26-64, Cl. 152-427.
- McConkie, Howard S. Tire valve stem. 3,134,419, 5-26-64, Cl. 152-427.
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- McConnaughay, Kenneth E. Emulsifier. 3,140,860, 7-14-64, Cl. 259-9.
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- McConnell, John R. Fabricating of structural steel members or units. 3,127,601, 4-7-64, Cl. 29-33.
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- McConnell, William M., to Taylor-Wilson Mfg. Co. Method of supporting and rotating pipe for threading operation. 3,128,482, 4-14-64, Cl. 10-1.
- McConnell, William M., to United States Steel Corp. Pipe threading machine with rigid tool cross slide. 3,130,427, 4-28-64, Cl. 10-101.
- McConnell, William M., to Taylor-Wilson Mfg. Co. Method and apparatus for cutting elongated articles to length or into multiples. 3,131,588, 5-5-64, Cl. 82-47.
- McConnell, William M., to Taylor-Wilson Mfg. Co. Taper cutting bar attachment. 3,159,857, 12-8-64, Cl. 10-87.
- McConnell, William M., and R. L. Carey, to Taylor-Wilson Mfg. Co. Apparatus for handling elongated articles. 3,118,546, 1-21-64, Cl. 214-1.
- McConnell, William M., and G. P. Whitfield, to Taylor-Wilson Mfg. Co. Apparatus for hydraulically pressurizing pipe. 3,137,159, 6-16-64, Cl. 73-49.1.
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- McCorkle, Max, to Thompson Ramo Wooldridge Inc. Submarine mounted telescoping antenna. 3,158,865, 11-24-64, Cl. 343-709.
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- McCoy, Frederic C., E. C. Knowles, and H. V. Hess, to Texaco, Inc. Method of preparing finely-divided wax. 3,152,917, 10-13-64, Cl. 106-271.
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- McEvoy, Francis J., M. D. Heller, and S. Bernstein, to American Cyanamid Co. 14,21-epoxy-pregnanes and method of preparing the same. 3,146,230, 8-25-64, Cl. 260-239.55.
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- McKee, Arthur G., & Co.: See—
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- McKinzie, Adrien P. Dual purpose arrow head. 3,138,383, 6-23-64, Cl. 273-106.5.
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- McKnight, George R. Lightable push-button switch assembly. 3,118,038, 1-14-64, Cl. 200-167.
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- McMillan, Stewart H., R. E. Mottin, W. A. Sutton, R. D. MacDonald, and E. Linck, to Parke, Davis & Co. Capsule inspection method and sorting machine. 3,123,217, 3-3-64, Cl. 209-111.5.
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- McMurray, Paul H.: See—
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- McMurtrey, Lawrence J., to The Boeing Co. Nuclear powered water jet engine. 3,151,596, 10-6-64, Cl. 115-14.
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- McNaney, Joseph T. Piezoelectric transducer force to motion converter. 3,154,700, 10-27-64, Cl. 310-8.3.
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- Medlock, James D., E. M. Galle, and G. O. Atkinson, to Hughes Tool Co. Rock bit with replaceable air course. 3,125,174, 3-17-64, Cl. 175-337.
- Medlock, James D., E. M. Galle, and G. O. Atkinson, to Hughes Tool Co. Rock bit with replaceable air course. 3,125,175, 3-17-64, Cl. 175-337.
- Medlock, John P. Liquid measuring dispensers. 3,141,579, 7-21-64, Cl. 222-207.
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- Medoff, Irving, to Emsig Mfg. Co. Stitching device and guide. 3,162,154, 12-22-64, Cl. 112-2.
- Medoff, Irving, and C. Bonsignore, to Emsig Mfg. Co. Feeder actuator. 3,127,857, 4-7-64, Cl. 112-113.
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- Medwin, Albert H., and E. Luedicke, to Radio Corp. of America. Modular memory structures. 3,161,859, 12-15-64, Cl. 340-173.
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- Meece, John P.: See—
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- Meechan, Charles J.: See—
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- Meeder, Raymond L., and J. E. Kus, to Nuclear-Chicago Corp. Sample-conveying and light-sealing mechanism for scintillation counting. 3,163,756, 12-29-64, Cl. 250-71.5.
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- Meek, George W., to Litzenzia A.G. Movable air conditioning apparatus. 3,144,901, 8-18-64, Cl. 165-6.
- Meek, Harold J., to Jaroco International Inc. Sandblast generator. 3,148,484, 9-15-64, Cl. 51-12.
- Meek, William H., Jr., to Ferro Corp. Anti-oxidant stabilizer. 3,159,599, 12-1-64, Cl. 260-45.75.
- Meeker, David A.: See—
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- Konecny, Jan O., and Meeker. 3,156,654.
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- Meeker, Thyrge R., and H. L. Stadler, to Bell Telephone Laboratories, Inc. Information storage matrix utilizing a dielectric of pressure changeable permittivity. 3,118,133, 1-14-64, Cl. 340-173.
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- Meeker, William D., L. S. Simmons, and W. C. Vanderslice, to Product Development Corp. Driving and suspension system for amphibious vehicle. 3,161,246, 12-15-64, Cl. 180-648.
- Meeks, Arol W., to R. Frost. Aircraft tow bar. 3,132,886, 5-12-64, Cl. 294-16.
- Meen, Ronald H., W. H. Moore, and J. B. Dickey, to Eastman Kodak Co. Azo dyes from aminoisothiazoles. 3,143,540, 8-4-64, Cl. 260-155.
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- Meese, George E. Handling and storage means for marine hatch covers. 3,131,922, 5-5-64, Cl. 268-18.
- Meese, John W., to The Ridge Tool Co. Thin wall conduit and cable cutter with clamping means. 3,117,375, 1-14-64, Cl. 30-96.
- Meese, John W., to The Ridge Tool Co. Tube flaring tool. 3,117,617, 1-14-64, Cl. 153-81.
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- Mehlman, Ralph E. Spirit level. 3,138,878, 6-30-64, Cl. 33-211.
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- Mehta, Minoo D., and R. M. Quinton, to Beecham Research Laboratories Ltd. N-alkyl-pyrrolidine-2-methanol, α -cyclohexyl mandelates. 3,117,976, 1-14-64, Cl. 260-326.3.
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- Meier, Donald A., to The National Cash Register Co. Magnetic data-storage device and matrix. 3,134,965, 5-26-64, Cl. 340-174.
- Meier, Edwin, and E. Schweizer, to Ciba Ltd. Cell for electrolysis of melts having a plurality of movable cathodes. 3,156,638, 11-10-64, Cl. 204-226.
- Meier, Erhard, deceased (by L. J. and S. Meier), to Farbenfabriken Bayer Aktiengesellschaft. Purification of sugar solutions by means of spongy ion exchangers. 3,122,456, 2-25-64, Cl. 127-46.
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- Meier, Günther, to Gritzner-Kayser Aktiengesellschaft. Control system for zig-zag sewing machines. 3,130,697, 4-28-64, Cl. 112-158.
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- Meier, William A., to Signode Steel Strapping Co. Method of strap sealing and shearing. 3,152,621, 10-13-64, Cl. 140-93.4.
- Melcher, Hugo, to Zellweger Ltd., Uster Factories for Apparatus and Machines. Method and apparatus for automatically threading the heads of a loom. 3,121,936, 2-25-64, Cl. 28-46.
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- Meljer, Roelf J., to North American Phillips Co., Inc. Self lubricating piston. 3,133,477, 5-19-64, Cl. 92-155.
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- Melnecke, Erich. Boring apparatus for removing undisturbed test samples of soil. 3,162,256, 12-22-64, Cl. 175-252.
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- Meiners, Carl O., and H. W. and W. B. Lessing, to Meiners Optical Devices Ltd. Lamps and lighting equipment. 3,139,604, 6-30-64, Cl. 340-25.
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- Meinholdt, Charles L. Hydraulic shear. 3,157,084, 11-17-64, Cl. 83-625.
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- Mels, Helmut, and E. Koh, to Rutgerswerke-Aktiengesellschaft. Process for curing mixtures of unsaturated polyester resins with α -methylstyrene and divinylbenzene. 3,133,895, 5-19-64, Cl. 260-45.4.
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- Meisenheimer, Daniel T., Jr., and L. W. Syarto. Pressure switch. 3,119,910, 1-28-64, Cl. 200-83.
- Meiser, Werner, H. Henecke, P. Hoffmeister, and W. Wirth, to Farbenfabriken Bayer Aktiengesellschaft. Analgesic and diuretic 2-acetylaminio and 2-propionylamino Δ^2 -dihydro-1,3-thiazines. 3,137,628, 6-16-64, Cl. 167-65.
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- Melsinger, Erwin E.: See—
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- Meissner, Fritz, N. Rudolph, and H. Becker, to Josef Meissner Firm. Mixing and separating apparatus. 3,162,510, 12-22-64, Cl. 23-267.
- Meissner, Heribert, to J. Meissner. Process and device for the filling of shells with an explosive agent containing phosphorus. 3,159,076, 12-1-64, Cl. 86-20.
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- Meissner, William E., and G. Lane, said Meissner assor. to FMC Corp., and said Lane assor. to St. Regis Paper Co. Method for adhesively bonding surfaces. 3,151,427, 10-6-64, Cl. 53-44.
- Meissner, William L., to Minnesota Mining and Mfg. Co. Right-reading reproduction of printed originals. 3,121,650, 2-18-64, Cl. 156-240.
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- Meister, Harry G., Jr., and J. E. Olson, to Hyster Co. Package of elongated articles for vacuum pick-up and packaging material. 3,147,856, 9-8-64, Cl. 206-60.
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- Meldrum, Roy W., to Bursine Corp. Clamping device for a bag-type receptacle. 3,138,361, 6-23-64, Cl. 248-95.
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- Melieton, Nicholas S., to J. Moss. Rotary deflector for aircraft engine intakes. 3,121,543, 2-18-64, Cl. 244-53.
- Melhart, Leonard J. Magnetic blowout contact switch. 3,147,358, 9-1-64, Cl. 200-147.
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- Melli, Gino, to Maison Industrie Tecnico Chimiche Nelsen. Expandable single use dispensing container. 3,156,383, 11-10-64, Cl. 222-83.
- Mellinger, Ernest F., to Ryan Aeronautical Co. Heat treatment of preformed finish-machined articles. 3,130,089, 4-21-64, Cl. 148-13.
- Mellinger, Kenneth L., and J. C. Spenser. Hot-top for ingot molds. 3,136,012, 6-9-64, Cl. 22-147.
- Mellon, Frank, and J. Di Domenico, to Jo-Dee Corp. Dispensing device having a grooved dispensing wheel. 3,161,321, 12-15-64, Cl. 221-266.
- Mello, William H., to The Warner & Swasey Co. Fluid pressure drive system. 3,120,157, 2-4-64, Cl. 91-408.
- Mellon, Bob. Data handling. 3,139,319, 6-30-64, Cl. 346-34.
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- Mellon, John J., Jr., J. Harding, and W. J. Zarkowski, Jr., to United States of America, Navy. Ejection device for aircraft crash dye marker. 3,157,890, 11-24-64, Cl. 9-9.
- Mellon, Joseph T., to Abrasive Products, Inc. Perforated abrasive disc. 3,121,298, 2-18-64, Cl. 51-185.
- Melloni, Alfonso. Trailer for automobiles and device for boat support therein. 3,130,842, 4-28-64, Cl. 214-84.
- Mellor, Erwin T., and J. P. Konsevlch, to Emhart Corp. Shotgun gauge adapter. 3,156,995, 11-17-64, Cl. 42-77.
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- Melton, Edgar B., to Dominion Engineering Works Ltd. Fluid inlet for paper machine. 3,152,037, 10-6-64, Cl. 162-338.
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- Melton, James O., and I. M. Carpenter, to The Geograph Co. Well depth recorder. 3,124,410, 3-10-64, Cl. 346-49.
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 Meyer, Hans. Distance measuring devices. 3,119,187, 1-28-64, Cl. 33-147.
 Meyer, Hans J. G., J. Volger, and R. Thees, to North American Phillips Co., Inc. Dry shaving apparatus comprising a shaving head with a cooling system. 3,141,239, 7-21-64, Cl. 30-34.
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- Meyer, Rudolf X., to The Aerospace Corp. Hypervelocity propulsion arrangement. 3,126,789, 3-31-64, Cl. 89-8.
- Meyer, Rudolf X., to Space Technology Laboratories, Inc. Propulsion method and apparatus. 3,128,595, 4-14-64, Cl. 60-35.3.
- Meyer, Rudolf X., to Thompson Ramo Wooldridge Inc. Magnetohydrodynamic voltage generator. 3,155,850, 11-3-64, Cl. 310-11.
- Meyer, Saul, to Honeywell Inc. Alarm sensing. 3,163,849, 12-29-64, Cl. 340-146.2.
- Meyer, Sidney, to A. S. Epple, Inc. Cloth bolt handling device. 3,162,390, 12-22-64, Cl. 242-55.54.
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- Dahn, Raymond C., Jr., Langan, and Meyer. 3,155,750.
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- Meyerer, Paul, to Siemens & Halske Aktiengesellschaft. Electron collector for travelling wave tubes and the like. 3,153,743, 10-20-64, Cl. 315-5.38.
- Meyrhofer, Carl, to J. Sassano. Squeegee suction cleaner. 3,118,165, 1-21-64, Cl. 15-40.2.
- Meyrhofer, Carl E., to The Regina Corp. Vacuum cleaner nozzle. 3,137,884, 6-23-64, Cl. 15-339.
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- Meyrhofer, Alfred, and T. Csakvari, to Westinghouse Electric Corp. Semiconductor crystal slicing device. 3,117,398, 1-14-64, Cl. 51-73.
- Meyrhofer, Leonard, to himself and S. A. Meyrhofer, d.b.a. Eastern Research Group. Device for controlling ship movement. 3,137,265, 6-16-64, Cl. 115-12.
- Meyrhofer, Leonard, to Eastern Research Group. Propulsion systems for water borne craft. 3,143,097, 8-4-64, Cl. 114-66.5.
- Meyrhofer, Stanley A.: See—
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- Meyer-Jagenberg, Gunter, to Jagenberg-Werke Akt.-Ges. Conical container of paper, cardboard or similar carton-forming material and method of making same. 3,118,351, 1-21-64, Cl. 93-39.1.
- Meyer-Jagenberg, Gunter, to Jagenberg-Werke AG. Pressure actuated disk brake. 3,160,238, 12-8-64, Cl. 188-152.
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- Kerschner, Paul M., and Meyers. 3,131,151.
- Meyers, Albert I., to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College. α -bis(3-alkylidene-5,5-dialkyl-1-pyrrolidin-2)alkanes and ethers. 3,157,672, 11-17-64, Cl. 260-326.5.
- Meyers, Clarence L., & Co., Inc.: See—
- Meyers, Gordon E. 3,123,888.
- Meyers, Douglas C., to Shell Oil Co. Graphical readout system for records. 3,136,886, 6-9-64, Cl. 235-61.9.
- Meyers, Douglas C., to Shell Oil Co. Mandrel for gas lift valves. 3,160,113, 12-8-64, Cl. 103-232.
- Meyers, Douglas C., and C. L. Barr, to Shell Oil Co. Low-temperature dehydration of well fluids. 3,159,473, 12-1-64, Cl. 62-12.
- Meyers, Frederick C. Butane lighter construction. 3,161,034, 12-15-64, Cl. 67-7.1.
- Meyers, George L., to American Can Co. Carton. 3,142,430, 7-28-64, Cl. 229-22.
- Meyers, Gordon E., to Clarence L. Meyers & Co., Inc. Yarn texturing device. 3,123,888, 3-10-64, Cl. 28-1.
- Meyers, Harold S., to Waldorf Paper Products Co. Receptacle encircling band. 3,126,660, 3-31-64, Cl. 40-312.
- Meyers, Harold S., to Waldorf Paper Products Co. Dispensing package. 3,127,054, 3-31-64, Cl. 221-25.
- Meyers, Harold S., to Waldorf Paper Products Co. Sliced meat package. 3,137,435, 6-16-64, Cl. 229-40.
- Meyers, John S.: See—
- Terry, Samuel M., and Meyers. 3,122,360.
- Meyers, Joseph, 25% to McCulloch Investments, 25% to C. L. and L. C. Wolfe, 10% to R. L. Cooper, and 40% to J. Meyers. Tire deflation device and system. 3,155,938, 11-3-64, Cl. 340-58.
- Meyers, Martin B.: See—
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- Bertuch, Charles J., and Meyers. 3,145,310.
- Meyers, Paul: See—
- Bogoff, Stanley, and Meyers. 3,134,089.
- Meyers, Peter G. Tool cooling apparatus. 3,137,184, 6-16-64, Cl. 77-55.
- Meyers, Vernon J., to United States of America, Navy. Gain control in response to ambient noise level. 3,160,707, 12-8-64, Cl. 179-1.
- Meyerson, Leonard. Payroll tax computer device. 3,152,756, 10-13-64, Cl. 235-88.
- Meyerson, Stanley. Terminal link for watch bands. 3,123,882, 3-10-64, Cl. 24-265.
- Meystre, Charles: See—
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- Meystre, Charles, A. Wettstein, O. Jeger, G. Anner, K. Heusler, and P. Wieland, to Ciba Corp. Process for the manufacture of 18-20-lactones of the pregnane series. 3,121,080, 2-11-64, Cl. 260-239.57.
- Miale, Goltardo: See—
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- Miale, Joseph N.: See—
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- Miceli, Frank. Portable desk. 3,121,591, 2-18-64, Cl. 297-153.
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- Miceli, Bruno R., to Union Carbide Corp. Production of chromium lamella on a molten supporting vehicle. 3,131,049, 4-28-64, Cl. 75-5.
- Mieck, Richard. Self-aligning ball valves. 3,121,234, 2-18-64, Cl. 4-57.
- Miceli, Joseph B. Hook and eye fastening device. 3,159,843, 12-8-64, Cl. 1-325.
- Michael, Elmer W.: See—
- Claus, Adolph S., Vollink, and Michael. 3,121,637.
- Michael, Harlan G., to Collins Radio Co. Radio receiver input protective self-actuated variable attenuator. 3,143,706, 8-4-64, Cl. 325-362.
- Michael, Harold J., to North American Aviation, Inc. Metal treatment in molten alkali-barium-boro-silicate glass and composition. 3,158,515, 11-24-64, Cl. 148-20.
- Michael, Malden W.: See—
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- Michaels Art Bronze Co., Inc.: See—
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- Michaels, Frank L. 3,150,422.
- Michaels, Bruno, to Bell & Howell Co. Reel spindle. 3,121,543, 2-18-64, Cl. 242-68.1.
- Michaels, Bruno, to Bell & Howell Co. Automatic film threading device. 3,122,965, 3-3-64, Cl. 88-17.
- Michaels, Bruno, to Bell & Howell Co. Self-threading projector. 3,137,200, 6-16-64, Cl. 88-17.
- Michaels, Edwin B., to Stamford Chemical Industries, Inc. Substantially neutral magnesium salt of a phosphoric acid ester of oxyethylated nonyl phenol. 3,117,152, 1-7-64, Cl. 260-461.
- Michaels, Edwin B., to Stamford Chemical Industries, Inc. Dry cleaning solvent compositions. 3,162,604, 12-22-64, Cl. 252-171.
- Michaels, Ernest E., to Chicago Bridge & Iron Co. Method of forming a plastic spray coated floating roof. 3,158,667, 11-24-64, Cl. 264-45.
- Michaels, Frank L., to The Michaels Art Bronze Co., Inc. Astragal. 3,139,652, 7-7-64, Cl. 20-68.
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- Michaels, Jerome L.: See—
- Postle, Robert S., Michaels, and Henderson. 3,132,825.
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- Zaug, Harold E., De Net, and Michaels. 3,135,770.
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- Michaels, Sidney, to FMC Corp. Apparatus for sorting articles. 3,148,783, 9-15-64, Cl. 214-11.
- Michaelson, Stanley D., to Kennecott Copper Corp. Idler structure for belt conveyors. 3,138,240, 6-23-64, Cl. 198-192.
- Michaelson, Stanley T.: See—
- Levey, Maurice, and Michaelson. 3,153,579.
- Michaelson, William, to General Electric Co. Compensated vertical sweep circuit. 3,147,397, 9-1-64, Cl. 315-27.
- Michal, Edward B.: See—
- Dempsey, Martin E., and Michal. 3,134,861.
- Michal, James, to Storkline Corp. Baby crib. 3,129,439, 4-21-64, Cl. 5-93.
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- Michalak, Stanley J., Jr., to Mechanical Power Corp. Power cylinder. 3,135,171, 6-2-64, Cl. 92-14.
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- Michell, Joseph. Dispensing device for merchandise. 3,122,236, 2-25-64, Cl. 206-44.12.
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- Harty, Millard F., Jr.: 3,129,606.
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- Millonis, Jerry P., R. A. Coleman, and F. J. Arthen, to American Cyanamid Co. Alkenylamino benzophenones. 3,120,564, 2-4-64, Cl. 260-562.
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- Millard, Angus W., 1/2 to Drallim Industries Ltd. Fluid switching valves. 3,128,788, 4-14-64, Cl. 137-595.
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- Millar, John R.: See—
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- Miller, Bennett: See—
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- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Pulse synchronizing means for multitrans P.C.M. system. 3,118,111, 1-14-64, Cl. 325-13.
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- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Tapered waveguide transition sections. 3,126,517, 3-24-64, Cl. 333-34.
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- Miller, Theodore A. Powder dispensing unit. 3,140,018, 7-7-64, Cl. 222-283.
- Miller, Theodore A., and H. L. Fowler; said Fowler assor. to said Miller. Measuring and dispensing apparatus. 3,129,858, 4-21-64, Cl. 222-439.
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- Miller, Thomas M. Electric clipper cleaner and sterilizer. 3,126,247, 3-24-64, Cl. 21-83.
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- Miller, Walter L., and S. Tudor. Electrolytic anode and connection. 3,133,873, 5-19-64, Cl. 204-196.
- Miller, Wendell E., to The Cessna Aircraft Co. Delayed pressure loading for gear motors. 3,153,371, 10-20-64, Cl. 91-87.
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- Miller, Wendell S. Automatic skid control. 3,131,976, 5-5-64, Cl. 303-24.
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- Miller, William R., Jr., M. D. Rydberg, J. D. Sparklin, T. E. Fitch, and W. J. Forward, to Consolidated Machine Tool Division of Farrel-Birmingham Co., Inc. Machine tool. 3,152,594, 10-13-64, Cl. 29-560.
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- Milllett, Michael, to Modern Telephones (Great Britain) Ltd. Intercommunication telephone systems. 3,126,448, 3-24-64, Cl. 179-1.
- Millerville, Bertram J., to The Ohio Injector Co. High pressure bar stock valve. 3,147,950, 9-8-64, Cl. 251-214.
- Millhiser, Melvin, to Waldes Kohnor, Inc. Quick-acting bolt and nut type fastener having contractible bolt-gripping sleeve. 3,145,611, 8-25-64, Cl. 85-1.
- Millhiser, Robert G., to Ajem Laboratories, Inc. Scouring and abrasive treating machine. 3,153,882, 10-27-64, Cl. 51-15.
- Millhiser, Robert G., to Ajem Laboratories, Inc. Transverse abrasive blast tube. 3,160,989, 12-15-64, Cl. 51-8.
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- Millhouse, Douglas G., to Bell & Howell Co. Combined shutter and diaphragm for a camera. 3,121,380, 2-18-64, Cl. 95-64.
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- Milligan, John, to M.G. Plastics Ltd. Casting synthetics resins. 3,132,195, 5-5-64, Cl. 264-272.
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- Millman, Nathan, and M. E. Fretz, to J. M. Huber Corp. Stabilization of fluid suspensions of filler grade clay. 3,130,063, 4-21-64, Cl. 106-308.
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- Millman, William V., to American Air Filter Co., Inc. Air conditioning condensate handling apparatus and method. 3,122,893, 3-3-64, Cl. 62-93.
- Millman, William V., to American Air Filter Co., Inc. Damper operating arrangement. 3,134,318, 5-26-64, Cl. 98-38.
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- Mills, Jack F., to The Dow Chemical Co. Process of bleaching textiles with lower alkyl quaternary ammonium perhalides. 3,156,521, 11-10-64, Cl. 8-108.
- Mills, John A. Method for finishing gears. 3,143,039, 8-4-64, Cl. 90-1.6.
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- Mills, Herbert E. 3,127,890.
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 Mintzer, Alfred I., to United States of America, Army. Range sweep and positioning circuit. 3,140,484, 7-7-64, Cl. 343-72.
 Minter, Lester, to Minneapolis-Honeywell Regulator Co. Electrical pulse manipulating apparatus. 3,121,172, 2-11-64, Cl. 307-88.
 Minter, Lester, to Minneapolis-Honeywell Regulator Co. Magnetic core counter. 3,121,799, 2-18-64, Cl. 307-88.
 Minutilla, Leon C., to Rhode Island Spring Products, Inc. Centrally retained traction device. 3,117,612, 1-14-64, Cl. 152-216.
 Minutilla, Leon C., to Rhode Island Spring Products, Inc. Traction grip device for vehicle tires. 3,138,189, 6-23-64, Cl. 152-216.
 Minutilla, Leon C., to Rhode Island Spring Products, Inc. Traction device for vehicle tires. 3,151,654, 10-6-64, Cl. 152-225.
 Minutoli, Anthony L., to Kesterman Bros. Mfg. Co. Clasp for articles of jewelry and the like. 3,160,938, 12-15-64, Cl. 24-265.
 Miotti, Giosue, to Messrs. I.C.O.S. Impresa Costruzioni Opere Specializzate S.p.A. Method and apparatus for constructing subterranean concrete walls. 3,139,729, 7-7-64, Cl. 61-35.
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 Mirando, Louis, to The Holiday Line, Inc. Animated in-latch toy. 3,141,261, 7-21-64, Cl. 46-118.
 Miron, Vladimir C., deceased (by The First National Bank in Sioux City, executor), to Wincharger Corp. Plural voltage electric generator. 3,160,772, 12-8-64, Cl. 310-146.
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 Mirvis, Leonard, to Parke, Davis & Co. Feeder bowl. 3,131,802, 5-5-64, Cl. 198-33.
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 Mischel, Gordon J., and G. C. Kousek; said Mischel assor. to Waldorf Paper Products Co., and said Kousek assor. to J. I. Case Co. Corrugated bin and dispenser container. 3,153,504, 10-20-64, Cl. 229-17.
 Misell, Afro. Cutting head for electric shavers having a helical shaped movable cutter. 3,128,550, 4-14-64, Cl. 30-43.
 Misell, Afro. Mowing machine with additional blades at the ends of the mower bar for cutting plants or weeds along the edge of the mowing area. 3,134,215, 5-26-64, Cl. 56-317.
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 Mishcon, Lester, to The Singer Co. Pattern mechanism for circular knitting machines. 3,145,548, 8-25-64, Cl. 66-50.
 Mishcon, Lester, to The Singer Co. Sinker assist devices for knitting machines. 3,149,483, 9-22-64, Cl. 66-107.
 Mishevich, Benjamin, and D. D. Rinehart, to North Electric Co. Position-and-lock jack. 3,145,067, 8-18-64, Cl. 339-75.
 Mishina, Yoshihiro, and T. Miura, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Rotary gas motor and compressor with conical rotors. 3,116,871, 1-7-64, Cl. 230-142.
 Mishkin, Abraham R., W. C. Marsh, and J. H. Wertheim, to Adco S.A. Aromatization of powdered coffee products. 3,148,070, 9-8-64, Cl. 99-71.
 Mishler, David D., to General Motors Corp. Brake lining wear warning mechanism and method of generating lining wear warning signals. 3,141,524, 7-21-64, Cl. 188-1.
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 Mitchell, Charles L., to The Cincinnati Milling Machine Co. Pressure regulating mechanism for hydraulic press and method of programming cam therefor. 3,125,053, 3-17-64, Cl. 113-45.
 Mitchell, Colin C., ¼ to Brown Brothers & Co. Ltd., ¼ to William Denny & Brothers Ltd., and ¼ to Allgemeine Elektrizitäts-Gesellschaft Schiffbau, and ¼ to Deutsche Werft Aktiengesellschaft. Stalling apparatus for ships. 3,125,057, 3-17-64, Cl. 114-126.

Mitchell, Colin C., K. Hinsch, and R. Geyer, to William Denny & Brothers Ltd., Brown Brothers & Co., Deutsche Werft A.G., and Allgemeine Elektrizitäts-Gesellschaft. Flin arrangement. 3,126,857, 3-31-64, Cl. 114-126.
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 Mitchell, David M., and E. R. Phinney, to Bell Telephone Laboratories, Inc. Device for shaving cable core. 3,128,658, 4-14-64, Cl. 82-20.
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 Davey, James R., Mitchell, Ostendorf, and Rea. 3,141,928.
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 Mitchell, Fleeta A. Drapery pleating. 3,122,290, 2-25-64, Cl. 223-28.
 Mitchell, Francis E., 50% to R. E. Smalley. Shift and throttle control unit for outboard motors. 3,153,945, 10-27-64, Cl. 74-472.
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 Mitchell, Joseph M. Medicine dropper construction. 3,154,116, 10-27-64, Cl. 141-24.
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 Mitchell, Ralph L., and L. J. Hillenbrand, Jr., to The Barber Mfg. Co. Oxygen detection method and apparatus. 3,119,670, 1-28-64, Cl. 23-232.
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 Mitchell, Wallace F. Rotary torque actuator. 3,153,986, 10-27-64, Cl. 92-33.
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 Mittelstaedt, Georg S. Suction pump means having transversely divided suction tubes. 3,127,091, 3-31-64, Cl. 230-92.
 Mittelstaedt, Georg S. Suction pump means having longitudinally divided suction tubes. 3,129,873, 4-21-64, Cl. 230-92.
 Mittelstaedt, Georg S. Suction pump means having suction tubes with transversal and peripheral openings. 3,129,874, 4-21-64, Cl. 230-92.
 Mittelstaedt, Georg S. Suction pumps having suction tubes with peripheral openings. 3,135,221, 6-2-64, Cl. 103-262.
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- Mittelsteadt, Glen L., to Herter's Inc. Tiltable bottle mounting attachment for powder measuring devices. 3,147,890, 9-3-64, Cl. 222-165.
- Mittelsteadt, Glen L., to Herter's Inc. Cam actuated powder measure device. 3,147,893, 9-3-64, Cl. 222-306.
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- Mittler, Martin A., to Industrial Electronic Hardware Corp. Edge board connector. 3,131,017, 4-28-64, Cl. 339-259.
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- Mitz, Milton A., and S. S. Yanari, to Armour-Pharmaceutical. Catalase compositions. 3,126,324, 3-24-64, Cl. 195-63.
- Mitzelfelt, Albert D. Method of preparing a filled meat product. 3,131,066, 4-28-64, Cl. 99-108.
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- Mixon, James L., Jr., to AMP Inc. Crimping tool. 3,120,772, 2-11-64, Cl. 81-15.
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- Miyachi, Hideo, to Yashica Co. Ltd. Motion picture film counting mechanism. 3,152,332, 10-6-64, Cl. 352-172.
- Mizell, Toney, Jr., and S. E. Houser. Can sorting device. 3,131,816, 5-5-64, Cl. 209-111.5.
- Mizelle, Adrian C., to Brown & Williamson Tobacco Corp. Direct feed mechanism interconnecting cigarette packer and cellophane wrapper apparatus. 3,121,301, 2-18-64, Cl. 53-74.
- Mizelle, Ned W., to General Steel Products, Inc. Reclining chair fixture. 3,128,122, 4-7-64, Cl. 297-68.
- Mizelle, Ned W., to General Steel Products, Inc. Reclining chair and fixture. 3,139,305, 6-30-64, Cl. 297-317.
- Mizen, Carlton A., to Minneapolis-Honeywell Regulator Co. Radiation detection apparatus with means to obtain substantially constant output signal with widely varying input signals. 3,143,650, 8-4-64, Cl. 250-83.3.
- Mizer, Donald E., to Heat-King Corp. Booster heater. 3,133,527, 5-19-64, Cl. 122-136.
- Mizer, Donald E., to Heat-King Corp. Booster heater. 3,158,192, 11-24-64, Cl. 158-28.
- Mizerak, Basil. Money safety pocket undershorts. 3,137,862, 6-23-64, Cl. 2-224.
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- Mizuno, Mitsuo, to New Kyoei Inc. Magnetic clasp. 3,129,477, 4-21-64, Cl. 24-201.
- Mizunuma, Sueharu, and K. Sawada, to Toshiba Kikai Kabushiki Kaisha. Method and apparatus for automatic control of machine tools by means of magnetic recording tapes. 3,119,291, 1-28-64, Cl. 82-14.
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- Moberly, Charles W., to Phillips Petroleum Co. Use of hydrogen and quaternary ammonium halides in organometal catalyzed olefin polymerization. 3,147,241, 9-1-64, Cl. 260-937.
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- Mobley, Joseph O., and A. J. Sondheimer, to United States of America Navy. Explosive bolt operated quarter band. 3,124,071, 3-10-64, Cl. 102-49.
- Mobley, Paul R., to General Electric Co. Brazing alloy. 3,155,499, 11-3-64, Cl. 75-134.
- Mobus, Günter, to Tente-Rollen Gesellschaft mit beschränkter Haftung & Compagnie. Lock type caster. 3,162,888, 12-29-64, Cl. 16-35.
- Mocoy, Walter G., to Philco Corp. Refrigeration system including defrost means. 3,118,287, 1-21-64, Cl. 62-156.
- Mock, Frank C., to The Bendix Corp. Motive fluid control for a re-expansion gas turbine engine. 3,124,931, 3-17-64, Cl. 60-39.25.
- Mock, Frank C., to The Bendix Corp. Braking system for gas turbine driven land vehicles. 3,133,416, 5-19-64, Cl. 60-39.16.
- Mock, Harold J., and R. V. Keys. Connector for miniature multiple conductor tape or wires. 3,123,422, 3-3-64, Cl. 339-75.
- Mock, Richard A.: See—
Vanderkool, William N., and Mock. 3,123,589.
- Mockabee, Allan D. Weed picker. 3,149,873, 9-22-64, Cl. 294-50.5.
- Mockiewicz, Sylvester C., and L. B. Sax. Buffing wheel. 3,120,724, 2-11-64, Cl. 51-193.
- Mockrin, Isadore, to Pennsalt Chemicals Corp. Novel fluosulfate glasses. 3,156,573, 11-10-64, Cl. 106-47.
- Mod, William A.: See—
Surls, Joseph P., Jr., Becker, and Mod. 3,131,994.
- Mod, Robert R., E. L. Skau, S. P. Fore, F. C. Magne, A. F. Novak, H. P. Dupuy, J. R. Ortego, and M. J. Fessler, to United States of America Agriculture. N-acetyl-N'-methylpiperazines. 3,147,261, 9-1-64, Cl. 260-268.
- Moderno, John P., to Modern-Lab, Inc. Pressurized dispensing device. 3,134,505, 5-26-64, Cl. 222-82.
- Model Engineering & Mfg. Corp.: See—
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- Model, Ernst: See—
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- Model Products Corp.: See—
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- Moden, John C.: See—
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- Modern-Lab, Inc.: See—
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- Modern Spacemaster Products, Inc.: See—
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- Modern Products Co., Inc.: See—
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- Moderohn, Charles W.: See—
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- Moderohn, Otto, and H. Bettin, to Olympia Werke A.G. Distribution network which effects a substantially constant load. 3,155,884, 11-3-64, Cl. 317-137.
- Modiano, Victor J., to Robertshaw Controls Co. Constant amplitude oscillator. 3,117,288, 1-7-64, Cl. 331-109.
- Modiano, Victor J., to Hughes Aircraft Co. Majority logic circuit using a constant current bias. 3,155,839, 11-3-64, Cl. 307-88.5.
- Modigliani, Piero, to Reichhold Chemicals Inc. Method of and apparatus for multiple forming and winding of glass and resin filaments. 3,134,704, 5-26-64, Cl. 156-167.
- Modine Mfg. Co.: See—
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- Modlinski, Witold M., to Ampex Corp. Storage-state-indicating device. Re. 25,660, 10-13-64, Cl. 340-174.
- Modney, William, to Eastman Kodak Co. Photographic color reproduction apparatus. 3,161,108, 12-15-64, Cl. 88-24.
- Modrey, Henry J. Quick-acting fastener device for securing together several members. 3,121,453, 2-18-64, Cl. 151-41.7.
- Modrey, Henry J., to Hubbell Harvey, Inc. Electrical wiring device. 3,121,599, 2-18-64, Cl. 339-91.
- Modrey, Henry J. Terminal screw for electrical connectors. 3,122,406, 2-25-64, Cl. 339-95.
- Modrey, Henry J. Hollow wall anchor with pivoted anchor member. 3,127,807, 4-7-64, Cl. 85-3.
- Modular Electronics, Inc.: See—
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- Moe, Lowell A., to F. H. Peavey and Co. Ultrasonic systems. 3,157,153, 11-17-64, Cl. 116-137.
- Moe, Lowell A., and R. E. Warren, to F. H. Peavey Co. Spin ball pressure interrupter. 3,157,154, 11-17-64, Cl. 116-137.
- Moe, Paul G., to National Lead Co. Soil-conditioning with linseed hulls. 3,118,251, 1-21-64, Cl. 47-58.
- Moe Pump Co.: See—
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- Moe, Walter: See—
Sorrentino, William J., and Moe. 3,142,285.
- Moe, William W., to Time, Inc. Direct positive printer for color print analyzer. 3,138,662, 6-23-64, Cl. 178-52.2.
- Moebius, Charles M., and C. H. Barricklow, Jr., to Parker-Hannifin Corp. Resilient nozzle mount. 3,159,971, 12-8-64, Cl. 60-39.74.
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- Moedel, Robert C., to Life Management Inc. Floor mat and method of making the same. 3,156,957, 11-17-64, Cl. 20-78.3.
- Moehlmann, Richard H., to General Dynamics Corp. Pulse generators. 3,144,567, 8-11-64, Cl. 307-108.
- Moelbert, Heinrich, to Buffalo Forge Co. Method and apparatus for shearing using momentarily applied supporting and clamping forces of great magnitude. 3,152,499, 10-13-64, Cl. 83-51.
- Moeller, Delmer H., to The Dow Chemical Co. Honeycomb fabrication. 3,134,705, 5-26-64, Cl. 156-197.
- Moeller, Elmer H. Wind and sun guard. 3,137,043, 6-16-64, Cl. 20-62.
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- Moeller, Lowell J., to Western Electric Co., Inc. Triggering apparatus. 3,157,064, 11-17-64, Cl. 74-519.
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- Moeller & Neumann G.m.b.H.: See—
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- Moellmann, Heinz F., to Avco Corp. Fuel control gas producer governor and speed selector linkage. 3,155,103, 11-3-64, Cl. 137-18.
- Moellmann, Heinz F. Fuel control air pressure multiplier and main metering valve. 3,159,001, 12-1-64, Cl. 60-39.28.
- Moen, Erick. Tail stocks for milling machines. 3,127,815, 4-7-64, Cl. 90-23.
- Moen, Rolf: See—
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- Moen, Walter B., and T. L. Sheperd, to Air Reduction Co., Inc. Internal combustion methods and apparatus. 3,135,626, 6-2-64, Cl. 117-105.2.
- Moennig, W. Hans: See—
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- Moerman, Nathan A., to Potter Instrument Co., Inc. Magnetic memory device for comparing digital information. 3,162,844, 12-22-64, Cl. 340-174.
- Moersch, George W., and D. F. Morrow, to Parke, Davis & Co. 17 α -amino-D-homoandrosta-4-ene-3,7-dione compounds. 3,150,184, 9-22-64, Cl. 260-563.
- Moesker, Gerard, to North American Philips Co., Inc. Method of making grids intended for use in electron discharge tubes. 3,154,113, 10-27-64, Cl. 140-71.5.
- Moffa, Emil: See—
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- Moffett, Frank E.: See—
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- Moffett, John F.: See—
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- Moffett, Robert B., to The Upjohn Co. Novel alkenyloxy-3,5-dialkyl benzamides. 3,151,158, 4-28-64, Cl. 260-268.
- Moffett, Robert B., to The Upjohn Co. Mono and bis N-(3 α -dihydroxy-11,20-dioxo-5 β -pregnan-21-yl)quaternary ammonium salts of triethylenediamine. 3,144,446, 8-11-64, Cl. 260-239.5.
- Moffett, Robert B., to The Upjohn Co. Mono and bis N-phenacyl quaternary ammonium salts of triethylenediamine. 3,144,455, 8-11-64, Cl. 260-268.
- Moffett, Robert B., to The Upjohn Co. Mono and bis N-alkanoylethyl quaternary ammonium salts of triethylenediamine. 3,144,456, 8-11-64, Cl. 260-268.
- Moffett, Robert B., to The Upjohn Co. N-(2-phthalimidoethyl) quaternary ammonium salts of triethylenediamine. 3,144,457, 8-11-64, Cl. 260-268.
- Moffett, Robert B., to The Upjohn Co. Mono and bis N-(p-sulfamoylbenzyl)quaternary ammonium salts of triethylenediamine. 3,144,458, 8-11-64, Cl. 260-268.
- Moffett, Robert B., to The Upjohn Co. Pyridylcoumarins. 3,156,697, 11-10-64, Cl. 260-295.
- Moffett, Robert P.: See—
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- Moffett, Sam M.: See—
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- Weakley, Martin L., Moffett, and Craig. 3,119,865.
- Moffitt, Merritt L., Jr. Sailing catamaran. 3,141,435, 7-21-64, Cl. 114-39.
- Mogensen, Harry, to Radio Corp. of America. Sequential pulse generator employing first and second delay means controlling pulse duration and spacing, respectively. 3,162,815, 12-22-64, Cl. 328-62.
- Mogliner, George S. High frequency dielectric preheater. 3,134,882, 5-26-64, Cl. 219-10.67.
- Moglia, John A. Shipping carton for garments. 3,139,978, 7-7-64, Cl. 206-7.
- Mohamed, Ahmed. Auxiliary cranking unit for internal combustion engines. 3,148,549, 9-15-64, Cl. 74-1.
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- Nonnamaker, William M. 3,129,743.
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- Mohler, Harvey H. Adjustable platform lounging chair. 3,131,965, 5-5-64, Cl. 297-89.
- Mohler, Robert D., R. H. Curtis, and J. J. Williams, to Motorola, Inc. Electronic circuit. 3,162,821, 12-22-64, Cl. 330-40.
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- Mohn, Heinrich, to Heraeus Quarzschmelze G.m.b.H. Process for producing quartz glass. 3,128,166, 4-7-64, Cl. 65-18.
- Mohn, Heinrich, and G. Horstmann, to Heraeus Quarzschmelze G.m.b.H., and Metall-Walz und Plattierwerke Hindrichs-Auffermann A.G. Bench mounted heat radiator. 3,147,363, 9-1-64, Cl. 219-217.

Mohn, Henry L., E. J. Kern, and G. D. Frank, to York Shipley, Inc. Apparatus for use in hot water heating systems. 3,150,827, 9-29-64, Cl. 237-8.

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Smith, Donald P. 3,120,025.

Mohr, Louis E., R. V. Seaholm, and F. A. Berezynski, to John Mohr & Sons. Integral gas burner and valve. 3,126,941, 3-31-64, Cl. 158-109.

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Moles, Warren H., and R. N. Rhodes, to Radio Corp. of America. Color television receiver control apparatus. 3,135,826, 6-2-64, Cl. 178-5.4.

Molho, Darius, to Lipha Lyonnaise Industrielle Pharmaceutique S.A. New coumarin- and a-pyrone-3-carboxamides. 3,122,557, 2-25-64, Cl. 260-295.

Molho, Darius, E. Boschetti, and L. Fontaine, to Lipha Lyonnaise Industrielle Pharmaceutique. Indane-1,3-dione rodenticide. 3,153,612, 10-20-64, Cl. 167-46.

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Mollins, Desmond W., to Molins Machine Co. Ltd. Containers for cigarettes. 3,132,746, 5-12-64, Cl. 211-134.

Mollins, Desmond W., and T. Rowlands, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 3,119,397, 1-28-64, Cl. 131-94.

Mollins, Desmond W., and T. Rowlands, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 3,136,320, 6-9-64, Cl. 131-94.

Mollins, Desmond W., R. H. G. Raine, and A. G. Jefferys, to Molins Machine Co. Ltd. Apparatus for supplying cigarettes to cigarette packing machines. 3,152,680, 10-13-64, Cl. 198-20.

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Jackson, Donald R. P. 3,151,014.

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Moller, Brynum W. Rear view mirror construction. 3,151,207, 9-29-64, Cl. 88-86.

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Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Automatic flight control device. 3,142,792, 7-28-64, Cl. 318-489.

Möller, Waldemar. Pickoff system for gyroscope control. 3,142,993, 8-4-64, Cl. 74-5.6.

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Mollick, Milton, to Ametek, Inc. Electric transducer. 3,136,969, 6-9-64, Cl. 338-41.

Mollick, Milton, to Ametek, Inc. Instrument for recording temperature and method of calibration thereof. 3,147,610, 9-8-64, Cl. 73-1.

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Molloy, Brian J., to Molloy Mfg. Co. Fluid dump valve. 3,150,857, 9-29-64, Cl. 251-63.

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Mollring, Gilman B. Apparatus for pulverizing and dispersing solid material into liquid suspension. 3,160,352, 12-8-64, Cl. 241-98.

Mollring, Howard S. Automatic cycling valve for fluid treatment systems. 3,138,553, 6-23-64, Cl. 210-134.

Molmud, Paul, to Space Technology Laboratories, Inc. Method and apparatus for communicating through a region of ionized gas. 3,133,250, 5-12-64, Cl. 325-65.

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Molt, Otto P. Compression springs for mattresses, upholstered furniture, and the like. 3,161,408, 12-15-64, Cl. 267-1.

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- Moore, Lawrence A., to Beloit Corp. Weight stabilizing load handling machine. 3,160,284, 12-8-64, Cl. 212-49.
- Moore, Lee C. Corp.: See—
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- Jenkins, Cecil, and Woolslayer. 3,123,231.
- Woolslayer, Homer J., Chism, and Jenkins. 3,145,802.
- Woolslayer, Homer J., and Jenkins. 3,136,394.
- Woolslayer, Homer J., Jenkins, and Iddings. 3,162,464.
- Moore, Lemuel L., and G. W. Downs. Device for stacking sheet material. 3,147,010, 9-1-64, Cl. 271-72.
- Moore, Louis D., Jr., R. M. Schulken, Jr., and J. W. Tamblyn, to Eastman Kodak Co. Bolling aqueous organic liquid enhancement of high acetyl cellulose acetate products flow point and wrinkle recovery. 3,128,148, 4-7-64, Cl. 8-131.
- Moore, Loyd C., and K. J. Hecker, to United States of America, Navy. Electronic analog storage device. 3,157,859, 11-17-64, Cl. 340-173.
- Moore, Mildred L.: See—
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- Moore, Norman C., to The Plessey Co. Ltd. Method of making reinforced refractory bodies. 3,157,722, 11-17-64, Cl. 264-266.
- Moore, Orval A. Control system for irrigation ditch diversion flow. 3,121,313, 2-18-64, Cl. 61-23.
- Moore, Patrick H., to Minneapolis-Honeywell Regulator Co. Delay fuze for rotating munition. 3,146,714, 9-1-64, Cl. 102-85.6.
- Moore, Paul B., to Westinghouse Electric Corp. Air conditioning units for openings in walls. 3,123,987, 3-10-64, Cl. 62-263.
- Moore, Paul B., to Westinghouse Electric Corp. Air conditioning units. 3,128,610, 4-14-64, Cl. 62-263.
- Moore, Paul B., to Westinghouse Electric Corp. Heat pumps. 3,150,501, 9-29-64, Cl. 62-174.
- Moore, Peter P. Kite construction. 3,131,896, 5-5-64, Cl. 244-153.
- Moore Products Co.: See—
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- Moore, Coleman B. 3,126,026.
- Moore, Ralph E., Jr.: See—
Yerkey, Elton C., Moore, and Brewer. 3,135,227.
- Moore, Ralph G. D., and R. J. Cox, to General Amiline & Film Corp. Light-sensitive aminopyridinediazonium salt compositions. 3,134,675, 5-26-64, Cl. 96-91.
- Moore, Ralph W.: See—
Bowling, Joseph E., Jr., and Moore. 3,160,990.
- Hartman, Edward L., and Moore. 3,151,417.
- Moore, Ralph W., to The Pangborn Corp. Blasting with abrasive particles. 3,141,264, 7-21-64, Cl. 51-12.
- Moore, Ralph W., to The Pangborn Corp. Abrasive blasting wheel. 3,160,992, 12-15-64, Cl. 51-9.
- Moore, Raymond H., to United States of America, Atomic Energy Commission. Plutonium recovery from neutron-bombarded uranium fuel. 3,126,251, 3-24-64, Cl. 23-14.5.
- Moore, Raymond H., to United States of America, Atomic Energy Commission. Plutonium recovery from nuclear fuel. 3,136,599, 6-9-64, Cl. 23-14.5.
- Moore, Reginald T.: See—
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- Moore, Richard N.: See—
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- Franz, Raymond A., and Moore. 3,148,228.
- Moore, Richard V., and A. Rounph, to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactors. 3,137,625, 6-16-64, Cl. 176-43.2.
- Moore, Richard V., and S. Hackney, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,159,549, 12-1-64, Cl. 176-58.
- Moore, Robert B., to Phillips Petroleum Co. Method and apparatus for starting up the distillation of a liquid which tends to boil-up as a liquid. 3,158,554, 11-24-64, Cl. 202-40.
- Moore, Robert C.: See—
Bloomsburgh, Ralph A., Boothroyd, and Moore. 3,163,794.
- Moore, Robert C., to Philco Corp. Color television system. 3,146,302, 8-25-64, Cl. 178-5.4.
- Moore, Robert E., to International Telephone and Telegraph Corp. Small arms and bore cleaning and oiling apparatus. 3,133,630, 5-19-64, Cl. 206-1.
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- Moore, Robert L.: See—
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- May, Patrick L., and Moore. 3,117,512.
- Moore, Robert L., to United States of America, Atomic Energy Commission. Decontamination of uranium. 3,146,064, 8-25-64, Cl. 23-14.5.
- Moore, Roger N., to Reynolds Metals Co. Architectural screen. 3,125,195, 3-17-64, Cl. 189-82.
- Moore, Samuel & Co.: See—
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- Matthews, Richard E. 3,116,760.
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- Moore, Stanley C., and S. T. Crews, Jr., to Drilco Oil Tool, Inc. Shoulder facing tool. 3,119,209, 1-28-64, Cl. 51-241.
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- Wyant, Reece E., Perkins, and Moore. 3,163,219.
- Moore, Thomas F., and J. M. Cleary, to The Atlantic Refining Co. Hole straightening device. 3,154,156, 10-27-64, Cl. 175-76.
- Moore, Thomas H., to Radio Corp. of America. Electrostatic printing. 3,124,456, 3-10-64, Cl. 96-1.
- Moore, Thomas M., and H. F. Beduerftig, said Moore assor. to United States of America, Army. Jet vest. 3,150,847, 9-29-64, Cl. 244-4.
- Moore, Victor C., to Ford Motor Co. Power transmission mechanism. 3,125,900, 3-24-64, Cl. 74-688.
- Moore, Victor C., to Ford Motor Co. Transfer drive with countershaft and independent planetary sets. 3,158,040, 11-24-64, Cl. 74-688.
- Moore, Wendell F., to Bell Aerospace Corp. Individual flight device. 3,149,798, 9-22-64, Cl. 244-4.
- Moore, William A., to Ford Motor Co. Welding nodular iron. 3,141,237, 7-21-64, Cl. 29-495.
- Moore, William A., to Rid-A-Bird, Inc. Device for applying a liquid to the feet of roosting birds. 3,146,546, 9-1-64, Cl. 43-131.
- Moore, William A., to Rid-A-Bird, Inc. Poison dispensing bird perch. 3,147,565, 9-8-64, Cl. 43-131.
- Moore, William C., and J. D. Connors, to Welch Allyn, Inc. Illuminating means for medical instruments. 3,146,775, 9-1-64, Cl. 128-6.
- Moore, William H.: See—
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- Towne, Edmund B., Moore, and Dickey. 3,125,563.
- Moore, William H., to Crown Zellerbach Corp. Paperboard corrugating apparatus and method. 3,132,985, 5-12-64, Cl. 156-342.
- Moore, William H., and W. V. McConnell, to Eastman Kodak Co. Manufacture of tetrahydro-2,2,4,4-tetramethyl-3-furanol. 3,133,091, 5-12-64, Cl. 260-347.8.
- Moore, William J. M.: See—
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- Moore, William P., Jr.: See—
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- Moore, William P., Jr., to Allied Chemical Corp. Process for butynedol. 3,154,589, 10-27-64, Cl. 260-635.
- Moore, William P., Jr., to Allied Chemical Corp. Ethanolamines. 3,159,276, 12-1-64, Cl. 206-84.
- Moore, Howard H.: See—
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- Moorhead, Charles O., to M-C-M Machine Works. Piston rod and piston assembly. 3,137,179, 6-16-64, Cl. 74-579.
- Moorhead, John P., to Evans Products Co. Doorbar latch. 3,117,532, 1-14-64, Cl. 105-369.
- Moorhead, John P., and J. A. Shook, to Evans Products Co. Freight bracing apparatus. 3,151,572, 10-6-64, Cl. 105-369.
- Moorhead, Milton M., Jr.: See—
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- Moorman, Cletus L.: See—
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- Moorman, Cletus L., to General Motors Corp. Plastic fastener having double tapered point. 3,139,784, 7-7-64, Cl. 85-5.
- Moorman, Earl J., and J. J. O'Connell, to General Motors Corp. Refrigeration apparatus including defrost means. 3,138,006, 6-23-64, Cl. 62-156.
- Moorman Mfg. Co.: See—
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- Moormann, Helmuth, to Ideal Toy Corp. Method and apparatus for molding a doll's head. 3,124,842, 3-17-64, Cl. 18-34.
- Moors, Harold B., and D. K. Huang, to International Paper Co. Paperboard overlap carton. 3,137,436, 6-16-64, Cl. 229-48.
- Moote, Truman P., Jr.: See—
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- Mopul, Inc.: See—
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- Morain, Clifford F. Apparatus for preparing coated and wrapped pipe for joining. 3,121,898, 2-25-64, Cl. 15-88.
- Morain, Clifford F. Methods of protecting lengths of metal pipe. 3,157,549, 11-17-64, Cl. 156-253.
- Morales, Juan A. Water closet tank and outlet valve. 3,148,381, 9-15-64, Cl. 4-56.
- Moran, Clifford M.: See—
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- Moran, Donald F., and F. A. Norris, to Swift & Co. Method of dehulling soybeans. 3,126,932, 3-31-64, Cl. 146-221.7.
- Moran, George W. Dishwasher having means to inject liquid additive into the rinse water supply line. 3,139,890, 7-7-64, Cl. 134-100.
- Moran, Glenn T.: See—
Delay, Manfred S. 3,156,485.
- Moran, J. Kenneth: See—
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- Moran, James: See—
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- Moran, James H., to Schlumberger Well Surveying Corp. Induction method and apparatus for investigating earth formation utilizing two quadrature phase components of a detected signal. 3,147,429, 9-1-64, Cl. 324-6.
- Moran, John M.: See—
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- Moran, Joseph P.: See—
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- Moran, Michael J., to Decca Ltd. Doppler antenna array employing multiple slotted waveguides with feed switching. 3,135,959, 6-2-64, Cl. 343-768.
- Moran, Michael J., to Decca Ltd. Slotted waveguide array with parabolic reflectors and lobe switching. 3,137,001, 6-9-64, Cl. 343-768.
- Moran, Norman J., to Zenith Radio Corp. Television tuner having vernier knob individually clutched to channel line tuners with automatic declutching upon channel selection. 3,148,345, 9-8-64, Cl. 334-51.
- Moran, Ronald W., to The Fafnir Bearing Co. Retainer for anti-friction bearings. 3,121,597, 2-18-64, Cl. 308-201.
- Moran, Ronald W., to The Fafnir Bearing Co. Outer ring for anti-friction bearing. 3,161,448, 12-15-64, Cl. 308-187.
- Morand, Peter F., D. J. Marshall, and R. Daghenghi, to American Home Products Corp. 21-fluoro-17-methyl-11-oxygenated steroids. 3,162,630, 12-22-64, Cl. 260-239.55.
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- Morano, Patrick J., to Glamorise Foundations, Inc. Girdle type undergarment. 3,131,698, 5-5-64, Cl. 128-523.
- Morano, Patrick J., to Glamorise Foundations, Inc. Girdle type undergarments. 3,154,083, 10-27-64, Cl. 128-546.
- Morasch, Henry. Garden tool. 3,143,984, 8-11-64, Cl. 111-7.1.
- Moratti, Francesco, and C. Tosti, to Bombrini Parodi-Delfino Società per Azioni. Retractable blade tail unit for projectiles. 3,127,838, 4-7-64, Cl. 102-60.
- Moravsek, Richard T.: See—
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- Morbiddelli, Giuseppe, L. Arosio, and L. Notarbartolo, deceased (E. Pascallino, administratrix, and P. Notarbartolo, heirless), to Sna Viscosa Società Nazionale Industria Applicazione Viscosa S.p.A. Process for the purification of caprolactam. 3,145,198, 8-18-64, Cl. 260-239.3.
- Morceau, Marcel E. Vertically disposed mensuration device for pulling paper from rolls. 3,136,192, 6-9-64, Cl. 83-241.
- Morceau, Marcel E. Cigar filter. 3,144,023, 8-11-64, Cl. 131-189.
- Morcheles, Bernard, and N. L. D'Agostino, to Stacor Corp. Drawing board construction. 3,161,922, 12-22-64, Cl. 20-15.
- Morck, Roland A., M. C. Harris, and D. W. Miller, to National Biscuit Co. Preparation of baked food products. 3,158,486, 11-24-64, Cl. 99-86.
- Mordant, Roy J., to Minnesota Mining and Mfg. Co. Pressurized food package with hexafluorotrimethylene oxide as the propellant. 3,145,113, 8-18-64, Cl. 99-189.
- Morden, John R., to Bertwall Gypsum Co. Sheet material drilling equipment. 3,161,214, 12-15-64, Cl. 144-110.
- Mordstein, Walter, to Rheinische Braunkohlenwerke Aktiengesellschaft. Arrangement for inverting the sides of belts in endless conveyors and the like. 3,139,970, 7-7-64, Cl. 198-184.
- Mordwinkin, George, to Laboratory for Electronics, Inc. Dual frequency unijunction transistor oscillator. 3,142,024, 7-21-64, Cl. 331-60.
- Mor, John D. Electrical outlet plug. 3,156,515, 11-10-64, Cl. 339-159.
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- More, Philip J., to General Electric Co. Cooking appliance. 3,611,757, 12-15-64, Cl. 219-444.
- More, Philip J., and H. A. Walz, to General Electric Co. Supporting and gasketing means for domestic cooking ovens. 3,131,684, 5-5-64, Cl. 126-19.
- Moreau, Louis, to Société de Vente d'Aliments Allevard-Ugine. Magnetic force control or switching system. 3,146,381, 8-25-64, Cl. 217-171.
- Morecroft, Andrew S., and J. F. Szabat, to Mobay Chemical Co. Molding cellular polyurethane plastics. 3,154,606, 10-27-64, Cl. 264-54.
- Morehead, Ennis E. Dumping tricycle. 3,152,838, 10-13-64, Cl. 298-17.
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- Morehouse, Neal F., to Dr. Salsbur's Laboratories. Veterinary composition containing halo-nitrobenzamide and methods of using same. 3,161,564, 12-15-64, Cl. 167-53.
- Moreins, Harold: See—
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- Moreins, Harold, to The Bendix Corp. Transluxor with amplitude modulated driving pulse input converted to alternating sine wave output. 3,128,434, 4-7-64, Cl. 328-27.
- Moriel, Charles, to Gelgy Chemical Corp. N-arycarbamyl-glucosamines. 3,158,598, 11-24-64, Cl. 260-211.5.
- Moriel, Charles, to Gelgy Chemical Corp. N-(arycarbamoyl)- and N-(arylthiocarbamoyl)-glucosamines. 3,158,599, 11-24-64, Cl. 260-211.
- Moriel, Charles J., and W. G. Stoll, to Gelgy Chemical Corp. New aryl glycosaminides. 3,152,115, 10-6-64, Cl. 260-210.
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- Moriel, Emery B., H. A. Deffez, and J. F. Keogh. Radiator cap removing device. 3,121,355, 2-18-64, Cl. 81-90.
- Moriel, Frans A. M., to Laboratory For Electronics, Inc. Tiltable table for use in the radiological examination of patients. 3,149,229, 9-1-64, Cl. 250-55.
- Moriel, Frans A. M., and J. J. Vlach, to Laboratory for Electronics, Inc. X-ray table movable in two mutually perpendicular directions with a retractable radiation shield. 3,158,742, 11-24-64, Cl. 250-54.
- Moriel, Jacques: See—
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- Moreland, Jim N., and P. Nybo, to General Electric Co. Sheet classifying system. 3,156,361, 11-10-64, Cl. 209-74.
- Moreland, Robert S. Spare selector apparatus and method for setting less than ten pins for practice bowling. 3,123,356, 3-3-64, Cl. 273-43.
- Morille, Jules L. E., to Optique & Precision de Levallois. Automatic diaphragm pre-selector for reflex photographic apparatus. 3,133,487, 5-19-64, Cl. 95-64.
- Morillo, Edwin F.: See—
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- Morillo, Edwin F., to Standard Oil Co. Ammonium nitrate composition containing an alkali metal phthalocyanine combustion catalyst. 3,132,058, 5-5-64, Cl. 149-19.
- Morillo, Edwin F., to Standard Oil Co. Ammonium nitrate combustion catalyst. 3,153,603, 10-29-64, Cl. 149-19.
- Morillo, William, Jr., to Cannon Electric Co. Quick coupling device. 3,116,942, 1-7-64, Cl. 285-85.
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- Morena, Diego J. Non-glare cover for windshield wiper. 3,160,906, 12-15-64, Cl. 15-250.35.
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- Moreton, Douglas H., to Douglas Aircraft Co., Inc. Lubrication and hydraulic fluid composition. 3,118,841, 1-21-64, Cl. 252-78.
- Moreton, Douglas H., to Douglas Aircraft Co., Inc. Fire-resistant hydraulic fluid and lubricant. 3,136,726, 6-9-64, Cl. 252-48.9.
- Moretta, Giuseppe. Two feed circular knitting machine and method. 3,124,945, 3-17-64, Cl. 66-42.
- Moretta, Giuseppe. Pneumatic tensioning device for circular knitting machines, particularly for circular machines for making stockings. 3,159,015, 12-1-64, Cl. 66-149.
- Moretti, Whitfield W., and I. R. Hoxie, Jr., to Sperry Rand Corp. Pulse doppler tracking radar. 3,141,162, 7-14-64, Cl. 343-7.
- Morey, Everett D.: See—
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- Morey, Everett D., to General Electric Co. Clothes dryer control system. 3,159,465, 12-1-64, Cl. 34-45.
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- Buehl, Arnold L., and Wenzel. 3,163,159.
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- Morgan Co., Inc.: See—
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- Morgan, Derek W., to Aids, Inc. Projector. 3,143,035, 8-4-64, Cl. 88-24.

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Morgan, Walter A., to Esso Research & Engineering Co. Reciprocating motor control system. 3,134,938, 5-26-64, Cl. 318-130.
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Morin, Louis H. Hold-open automatic lock sliders. 3,121,930, 2-25-64, Cl. 24-205.14.
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Morrell, Jacques C. Lithium rocket propellants and process for using the same. 3,153,803, 10-27-64, Cl. 60-35.4.
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- Morris, John M., to Chainbelt Inc. Vibrating fluidized systems. 3,161,483, 12-15-64, Cl. 34-57.
- Morris, John M., and R. W. Evans, to Chain Belt Co. Vibratory feeder controls. 3,128,911, 4-14-64, Cl. 222-52.
- Morris, John N., to Simmonds Precision Products, Inc. Fuel-injection pumps for internal combustion engines. 3,124,116, 3-10-64, Cl. 123-139.
- Morris, John N., and R. M. Williams. Door checking appliance. 3,118,167, 1-21-64, Cl. 16-82.
- Morris, John N., and R. M. Williams. Door checking appliance. 3,160,911, 12-15-64, Cl. 16-52.
- Morris, John R., and L. E. Rainville, Jr., to Hughes Aircraft Co. Pen speed anticipating circuit. 3,148,451, 9-15-64, Cl. 33-18.
- Morris, Lawrence R., to United States of America, Navy. Swingable electrical contactor for guided missiles. 3,129,046, 4-14-64, Cl. 339-35.
- Morris, Leo R., to The Dow Chemical Co. Separation of chelate forming heavy metals from their aqueous solutions. 3,118,831, 1-21-64, Cl. 210-38.
- Morris, Leo R., to The Dow Chemical Co. Phenylvinylene cyclic carbonates. 3,125,582, 3-17-64, Cl. 260-340.2.
- Morris, Maron L., and J. A. Sobel, III, to Curtiss-Wright Corp. Exhaust noise suppressor for reaction engines. 3,120,877, 2-11-64, Cl. 181-51.
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- Morris, Ross E., to United States of America, Navy. Vibration damping treatments. 3,143,457, 8-4-64, Cl. 161-161.
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- Morrison, Ian H., to United Kingdom Atomic Energy Authority. Fuel elements for use in nuclear reactors. 3,131,129, 4-28-64, Cl. 176-68.
- Morrison, Ian H., to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactors. 3,145,152, 8-18-64, Cl. 176-77.
- Morrison, James L. D. Coffee percolator. 3,129,318, 4-14-64, Cl. 219-43.
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- Morrison, John C. Tape end holding means. 3,145,477, 8-25-64, Cl. 33-137.
- Morrison, John M., to Centriflo Pty. Ltd. Air screen creating apparatus. 3,145,641, 8-25-64, Cl. 98-36.
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- Morrison, Willard L. Insulated shipper container. 3,160,307, 12-8-64, Cl. 220-9.
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- Hilder, Peter F., and Morrison. 3,156,303.
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- Morrow, Edward L., to Olin Mathieson Chemical Corp. Trigger with adjustable screw and stud therein. 3,142,926, 8-4-64, Cl. 42-69.
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- Morrow, Franklin C.: See—
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- Morrow, Harry C., to United States Steel Corp. Self-centering roll. 3,120,916, 2-11-64, Cl. 226-192.
- Morrow, James A.: See—
- Brownlow, James M., and Morrow. 3,150,095.
- Morrow, Morris R., and A. D. Suttle, Jr., to Esso Research and Engineering Co. Method of conducting exothermic gas phase chemical reactions. 3,117,068, 1-7-64, Cl. 204-154.
- Morrow, Richard A.: See—
- Blagi, Fernando, Morrow, and Masonson. 3,124,652.
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- Fortescue, Peter, Zumwalt, and Morse. 3,146,173.
- Morse, Earl P. Marine outboard transmission and drive unit for inboard power plants. 3,146,755, 9-1-64, Cl. 115-35.
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- Morse, Hugh B., to Avery Industries, Inc. Drape frame assembly. 3,130,451, 4-28-64, Cl. 18-19.
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- Morse, John F. Steering connection for outboard motors. 3,143,994, 8-11-64, Cl. 115-18.
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- Muehlman, Ray L., to Union Carbide Corp. Mining machine launching and conveyor storage system. 3,135,502, 6-2-64, Cl. 262-26.
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- Mueller, Albert J., and P. R. Kline, said Mueller assor, to said Kline. Topical therapeutic composition. 3,137,622, 6-16-64, Cl. 167-58.
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- Mueller, Erich O., to Westinghouse Electric Corp. Electric traction truck of the parallel drive type. 3,152,557, 10-13-64, Cl. 105-108.
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- Mueller, Johannes, to Ciba Corp. Raunescine group alkaloids and their obtention. 3,131,192, 4-28-64, Cl. 260-287.
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- Mueller, Klaus P., to Robertshaw Controls Co. Pneumatic controller. 3,145,722, 8-25-64, Cl. 137-85.
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- Mueller, Richard J., C. Weber, and P. Katz, to Automatic Canteen Co. of America. General merchandising machine. 3,147,838, 9-8-64, Cl. 194-10.
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- Muellner, Donald R., and J. R. Muntjanoff, to Caterpillar Tractor Co. Adjustable valve control mechanism for tractor mounted loaders. 3,155,252, 11-3-64, Cl. 214-140.
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- Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Organic sulfide derivatives of decaborane. 3,154,561, 10-27-64, Cl. 260-327.
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- Müller, Alfred H., to Daimler-Benz Aktiengesellschaft. Seat construction for motor vehicles. 3,125,179, 3-17-64, Cl. 180-89.
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- Muroi, Tadashi, S. Onishi, S. Morimoto, and A. Yamauchi, to Agency of Industrial Science & Technology. Process for improving the properties of synthetic fibres, fabrics, films and moulded articles by irradiation with radioactive rays. 3,154,479, 10-27-64, Cl. 204-154.
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- Murphy, Arthur F.: See—
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- Murphy, Bernard T., to North American Philips Co., Inc. Electron-gun using combined magnetic and electrostatic focussing. 3,141,988, 7-21-64, Cl. 313-84.
- Murphy, Clarence J. Concealed filtering and aerating means for fish tank. 3,149,608, 9-22-64, Cl. 119-5.
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- Murphy, Desmond F., to Globe Industries, Inc. Surge voltage protective circuit for transistors oscillators. 3,136,958, 6-9-64, Cl. 331-62.
- Murphy, Desmond F., to Globe Industries, Inc. Inverter starting circuit. 3,160,830, 12-8-64, Cl. 331-113.
- Murphy, Donald D., to Joy Mfg. Co. Conveyor. 3,162,298, 12-22-64, Cl. 198-137.
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- Murphy, Francis T., to Rock-Ola Mfg. Corp. Vending machine. 3,158,246, 11-24-64, Cl. 194-2.
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- Murphy, Gerald G. Continuous scanning apparatus. 3,121,138, 2-11-64, Cl. 178-5.2.
- Murphy, Gerald G., to Hogan Facsimile Corp. Photosensitive automatic contrast control for facsimile. 3,153,726, 10-20-64, Cl. 250-207.
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- Murphy, Hugh, to The Prestige Group Ltd. Sponge mop having a detachable head. 3,157,901, 11-24-64, Cl. 15-244.
- Murphy, James G., and H. I., to J. P. Malone. Disposable apron means. 3,131,399, 5-5-64, Cl. 2-48.
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- Murphy, John F., and R. E., to Swift & Co. Antemortem injection of flavoring in poultry. 3,159,489, 12-1-64, Cl. 99-107.
- Murphy, John H.: See—
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- Murphy, John M., R. F. Schultz, and E. S. Schlotterbeck, to General Motors Corp. Fluid motor and adjustable biasing means. 3,121,373, 2-18-64, Cl. 92-95.
- Murphy, Joe W., to General Motors Corp. Light-polarizing lamp. 3,153,740, 10-20-64, Cl. 313-112.
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- Murphy, Laurence W., and C. D. Macy, to Geo. A. Hormel & Co. Method of preparing animals for slaughter. 3,135,017, 6-2-64, Cl. 17-45.
- Murphy, Milford R., to Bell Aerospace Corp. Navigation system. 3,130,401, 4-21-64, Cl. 343-6.
- Murphy, Norman B., to The Bendix Corp. Wheel force sensor for control of an aircraft and operative to modify an automatic pilot control system for the aircraft. 3,119,580, 1-28-64, Cl. 244-83.
- Murphy, Orlando J., to Bell Telephone Laboratories, Inc. Symmetrically limiting amplifier with feedback paths responsive to instantaneous and average signal variations. 3,162,818, 12-22-64, Cl. 328-169.
- Murphy, Preston V.: See—
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- Murphy, Remington: See—
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- Murphy, Thomas L.: See—
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- Murphy, William P., Jr., to Cordis Corp. Catheter pressure standard. 3,122,136, 2-25-64, Cl. 128-2.05.
- Murphy, William P., Jr., to Dade Reagents, Inc. Manufacture of tapered end plastic tubes. 3,152,202, 10-6-64, Cl. 264-167.
- Murphy, William P., Jr., and W. B. Dandiker, to Cordis Corp. Blood separation method. 3,140,714, 7-14-64, Cl. 128-214.
- Murr, Richard L. Safety fireworks igniter. 3,142,255, 7-28-64, Cl. 102-70.2.
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- Murray, Francis E., H. D. Zitko, R. H. Wright, and R. W. Kline, to British Columbia Research Council. Gas-liquid contacting apparatus. 3,150,211, 9-22-64, Cl. 261-112.
- Murray, Frederick R., and R. James, to Rolls-Royce Ltd. Combustion chamber for a gas turbine engine. 3,119,234, 1-28-64, Cl. 60-39.37.
- Murray, Gilbert. Packaging machine. 3,128,583, 4-14-64, Cl. 53-119.
- Murray, Guy E., V. A. Rayburn, and C. W. Rice, Jr., to Western Electric Co., Inc. Multiconductor terminal frame with wire harnessing means. 3,152,219, 10-6-64, Cl. 174-72.
- Murray, Henry D., Jr., and E. E. Johnston, to Standard Parts and Equipment Corp. Glide slope indicator. 3,138,779, 6-23-64, Cl. 340-26.
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- Murray, James G., F. F. Holub, and M. J. Smith, to General Electric Co. Compositions of matter and uses of said compositions in a projection system. 3,125,634, 3-17-64, Cl. 178-7.
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- Murray, James J. Solid state reactive phase lagging device. 3,122,655, 2-25-64, Cl. 307-88.5.
- Murray, James J. Automatic tensioner. 3,136,170, 6-9-64, Cl. 74-242.11.
- Murray, James J., and J. G. Truxal. Grid controlled transistor device. 3,153,154, 10-13-64, Cl. 307-88.5.
- Murray, John H.: See—
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- Murray, John S. Valve amplifier push-pull output stage. 3,127,569, 3-31-64, Cl. 330-122.
- Murray, John S. Transistor amplifier having direct current feedback bias control. 3,140,448, 7-7-64, Cl. 330-19.
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- Murray Mfg. Corp.: See—
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- Murray, Myles N., to Industrial Electronic Rubber Co. Capacitor with at least one electrode in a sealed container. 3,124,727, 3-10-64, Cl. 317-230.
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- Murray, Richard B.: See—
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- Murray, Thomas C., and J. B. Stone, to Xerox Corp. Aperture card cleaner. 3,117,333, 1-14-64, Cl. 15-1.5.
- Murray, Thomas C., R. H. Liva, and N. H. Kaupp, to Xerox Corp. Xerographic plate holder. 3,143,044, 8-4-64, Cl. 95-1.7.
- Murray, Thomas C., J. B. Stone, and F. S. Reese, to Xerox Corp. Xerographic plate cleaning apparatus. 3,149,356, 9-22-64, Cl. 15-1.5.
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- Murray, Thomas C., R. H. Liva, and N. H. Kaupp, to Xerox Corp. Xerographic processing apparatus. 3,160,057, 12-8-64, Cl. 88-24.
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- Murray, Thomas O. Skid control and traction device for vehicles. 3,156,492, 11-10-64, Cl. 291-42.
- Murray, Thomas P., and G. T. Hanyo, to Jones & Laughlin Steel Corp. Apparatus for measuring the thickness of thin transparent films. 3,158,675, 11-24-64, Cl. 88-14.
- Murray, Thomas R., H. N. Andrews, and W. W. Fahrion, to Westinghouse Electric Corp. Fuel follower for a reactor control rod. 3,138,536, 6-23-64, Cl. 176-40.
- Murray, William B. Method of disinfecting and automatically maintaining the pH of water in a swimming pool. 3,123,554, 3-3-64, Cl. 210-60.
- Murray, William L., to United States Steel Corp. Furnace roof. 3,129,678, 4-21-64, Cl. 110-99.
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- Murrell, Thomas, and R. R. Henry, to Muni Quip Corp. Frequency detector including noise rejection means. 3,148,328, 9-8-64, Cl. 324-78.
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- Murtha, John R., to The Risdon Mfg. Co. Closure for pressurized packages. 3,161,331, 12-15-64, Cl. 222-394.
- Murthy, Gopala K., J. E. Gilchrist, and J. E. Campbell, Jr., to United States of America, Atomic Energy Commission. Decontamination of milk from radioactive anionic ingredients. 3,148,989, 9-15-64, Cl. 99-60.
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- Murtland, James B., Jr., to Allegheny Ludlum Steel Corp. Deviation thickness gage. 3,140,545, 7-14-64, Cl. 33-147.
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- Muse, John F., and H. L. Bigelow, to Baker Oil Tools, Inc. High temperature packer for well bores. 3,131,764, 5-5-64, Cl. 166-123.
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- Muskegon Tool Industries, Inc.: See—
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- Musolf, Herbert G. Casing head. 3,134,610, 5-26-64, Cl. 285-3.
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- Musser, Clair O., to Scientific Industries, Inc. Vibraphone. 3,138,986, 6-30-64, Cl. 84-410.
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- Mustee, E. L., and Sons, Inc.: See—
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- Muta, Akinori, and Y. Uehara, to Kahushiki Kaisha Hitachi Seisabusho. Method of pulverizing graphite. 3,157,364, 11-17-64, Cl. 241-16.

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- Neitzel, Joseph C., and J. A. Nelson, to The Murray Co. of Texas, Inc. Gin overload alarm. 3,160,922, 12-15-64, Cl. 19-55.
- Neitzer, Jacob, Jr. Self-propelled riding attachment for an implement. 3,161,994, 12-22-64, Cl. 51-176.
- Neitzert, Carl, to General Time Corp. Adjustable high count magnetic counter. 3,156,814, 11-10-64, Cl. 235-92.
- Nejedly, Miroslav, to Zavody V. I. Lenin. Shafts of mechanical kilns with superposed floors for roasting of ores and similar purposes. 3,130,251, 4-21-64, Cl. 266-32.
- Nekola, William J., and M. Babunovic, to Barry-Wehmiller Machinery Co. Article combiner for conveyors. 3,117,665, 1-14-64, Cl. 198-30.
- Nelan, Donald R.: See—
Robeson, Charles D., and Nelan. 3,153,040.
Robeson, Charles D., and Nelan. 3,153,053.
- Nelan, Norman: See—
Brockman, Francis J., Murdock, and Nelan. 3,139,411.
- Neldas, Nila T.: See—
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- Nelden, Richard M., to American Radiator & Standard Sanitary Corp. Torque limiting fluid drive. 3,156,335, 11-10-64, Cl. 192-3.2.
- Nelemans, Johannes E., and A. H. Pecasse, to Stamicarbon N.V. Process for the manufacture of L-lysine or salts thereof. 3,150,174, 9-22-64, Cl. 260-534.
- Nelkin, Henry G., to H.G. Enterprises. Roller paint applicator. 3,160,909, 12-15-64, Cl. 15-522.
- Nell, Frederic, to Landis Machine Co. Profile rolling attachment. 3,145,590, 8-25-64, Cl. 80-6.
- Nelle, Rudolf, to Norddeutsche Seekabelwerke Aktiengesellschaft. Protective wrappers for breakable articles. 3,128,895, 4-14-64, Cl. 215-12.
- Nellen, William J., to The American Machine & Foundry Co. Fluid treatment. 3,150,069, 9-22-64, Cl. 204-301.
- Nelligan, James H., to Donald F. Duncan, Inc. Return top having conical apertures for producing sound. 3,156,068, 11-10-64, Cl. 46-61.
- Nelligan, William B.: See—
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- Nelson Corp.: See—
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- Nelson, Aaron L., to E. I. du Pont de Nemours and Co. Octahydroquinacridones and octahydroisquinacridones and processes for producing same. 3,133,071, 5-12-64, Cl. 260-279.
- Nelson, Alan H., to North American Aviation, Inc. Blocking oscillator with delay means in feedback loop. 3,158,751, 11-24-64, Cl. 307-88.5.
- Nelson, Alden W., to Crompton & Knowles Corp. Heat-exchange jacket attachment to extrusion cylinder. 3,119,149, 1-28-64, Cl. 18-12.
- Nelson, Alden W., and G. E. Sisson, to Crompton & Knowles Corp. Reel-winding apparatus. 3,118,627, 1-21-64, Cl. 242-25.
- Nelson, Alfred B., R. F. Greene, and O. J. McCabe, to The Superior Electric Co. Automatic illumination regulating unit. 3,128,384, 4-7-64, Cl. 250-205.
- Nelson, Alvin C. Manually operated snow removing device. 3,154,336, 10-27-64, Cl. 294-54.
- Nelson, Andrew J., and J. Butka, to Butkin Tool and Mfg. Corp. Automatic life jacket inflator for self-contained underwater breathing apparatus. 3,147,499, 9-8-64, Cl. 9-313.
- Nelson, Andrew J., and J. Butka, to Butkin Tool and Mfg. Corp. Iceing detection apparatus and system. 3,158,708, 11-24-64, Cl. 200-83.
- Nelson, Arthur E.: See—
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- Nelson, Arthur K., and A. D. F. Toy, to Stauffer Chemical Co. Preparation of monoalkyl phosphates. 3,146,255, 8-25-64, Cl. 260-461.
- Nelson, Arthur W.: See—
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- Nelson, Arvid L. F. T. Saeger, and J. E. Seckman, to Gardner-Denver Co. Plaston construction. 3,140,642, 7-14-64, Cl. 92-248.
- Nelson, August L. Seat reciprocating mechanism for bicycles. 3,133,747, 5-19-64, Cl. 280-226.
- Nelson, Benjamin J. H. Method of calendaring. 3,153,378, 10-20-64, Cl. 100-38.
- Nelson, Brooks E., to The Osborn Mfg. Co. Segmental rotary brush. 3,134,123, 5-26-64, Cl. 15-182.
- Nelson, Brooks E., to The Osborn Mfg. Co. Double end brush. 3,142,080, 7-28-64, Cl. 15-106.
- Nelson, Brooks E., and W. A. Gray, to The Osborn Mfg. Co. Twisted-tuft rotary brush. 3,139,642, 7-7-64, Cl. 15-198.
- Nelson, Bruce K., W. P. Goldberg, and M. B. Haslam, to Avco Corp. Signal synthesizer system. 3,145,383, 8-18-64, Cl. 343-100.
- Nelson, Clifford P.: See—
Brigel, Theodore W., and Nelson. 3,150,886.
- Nelson, Donald A. Machine for unseating tire beads. 3,142,330, 7-28-64, Cl. 157-117.
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- Nelson, Donald S. Elevator. 3,127,957, 4-7-64, Cl. 187-19.
- Nelson, Donald S. Traveling conveyor. 3,151,726, 10-6-64, Cl. 198-16.
- Nelson, Earl W.: See—
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- Nelson, Edwin A., deceased, by M. R. Nelson, administratrix. Fixture for supporting fence rails or the like. 3,157,388, 11-17-64, Cl. 256-68.
- Nelson, Elnathan K. Anti-blast and anti-suction air valve for atomic bomb shelter. 3,132,666, 5-12-64, Cl. 137-516.25.
- Nelson, Forrest A.: See—
Kane, Ralph W., Nelson, and Rogers. 3,150,295.
- Nelson, George A., to Shell Oil Co. Pressure vessel for containing hydrogen or mixtures thereof. 3,140,006, 7-7-64, Cl. 220-63.
- Nelson, Gilbert E., to Liquid Drive Corp. Fluid coupling. 3,157,999, 11-24-64, Cl. 60-54.
- Nelson, Glenn W., to The New York Central Railroad Co. Automatic journal box oiling apparatus. 3,155,191, 11-3-64, Cl. 184-2.
- Nelson, Gordon A., and F. D. Henry, to Northrop Corp. Flight simulator. 3,135,057, 6-2-64, Cl. 35-12.
- Nelson, Harold E., to Automatic Canteen Co. of America. Vending machine service tray. 3,124,400, 3-10-64, Cl. 312-281.
- Nelson, Harry, to Artercraft Venetian Blind Mfg. Co. of St. Louis. Ventian blind tilter construction. 3,122,198, 2-25-64, Cl. 160-176.
- Nelson, Harry, to Enamel Products. Splicer. 3,129,489, 4-21-64, Cl. 29-21.1.
- Nelson, Harry E., and R. L. Portable livestock loading chute. 3,148,664, 9-15-64, Cl. 119-82.
- Nelson, Harry W. Safety goggles. 3,147,489, 9-8-64, Cl. 2-14.
- Nelson, Herbert, and C. W. Benyon, Jr., to Radio Corp. of America. Semiconductor devices and methods of making them. 3,158,512, 11-24-64, Cl. 148-1.5.
- Nelson, Howard N., to Kimberly-Clark Corp. Cellulosic product. 3,160,337, 12-8-64, Cl. 225-32.
- Nelson, Ivan W. A., to General Electric Co. Automatic gain control circuit. 3,132,306, 5-5-64, Cl. 330-70.
- Nelson, Iver L., to Waldorf Paper Products Co. Lined containers. 3,157,341, 11-17-64, Cl. 229-14.
- Nelson, James A.: See—
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- Nelson, James K., to Westinghouse Electric Corp. Ice maker apparatus. 3,143,863, 8-11-64, Cl. 82-72.
- Nelson, Jeffery N., W. E. Bennington, and M. S. Bates. Calendars. 3,142,920, 8-4-64, Cl. 40-122.
- Nelson, Jerome W.: See—
Meppel, Perry J., Faulkner, and Nelson. 3,137,782.
- Nelson, Jerome W., to Esso Research and Engineering Co. Control system for welding machinery. 3,126,471, 3-24-64, Cl. 219-60.
- Nelson, Jerome W., and F. A. de Saw, to Esso Research and Engineering Co. Apparatus for cutting annular wall elements of tubular bodies. 3,130,524, 4-28-64, Cl. 51-165.
- Nelson, Jerry A.: See—
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- Nelson, Jim D.: See—
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- Nelson, John F., to Illinois Tool Works Inc. Support assembly for a perforated board. 3,163,132, 12-29-64, Cl. 108-152.
- Nelson, John H. Process for preventing rusetting of potato tubers. 3,137,561, 6-16-64, Cl. 71-1.
- Nelson, John I.: See—
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- Nelson, John R.: See—
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- Nelson, John W., to Sinclair Research Inc. Calcium alkanyl succinate grease making. 3,136,725, 6-9-64, Cl. 252-39.
- Nelson, John W. Clamping tool. 3,150,870, 9-29-64, Cl. 269-91.
- Nelson, John W., to Sinclair Research Inc. Phosphorus containing insecticides and method. 3,159,533, 12-1-64, Cl. 107-30.
- Nelson, Kurt, and W. A. Scott, to The De Laval Separator Co. Automatic flow regulator. 3,117,590, 1-14-64, Cl. 137-504.
- Nelson, La Von, to Lurex Mfg. Co. Valves for use in laboratory glassware. 3,142,474, 7-28-64, Cl. 251-309.
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- Nelson, Leroy E.: See—
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- Nelson, Lorne W., to Honeywell Inc. Control apparatus. 3,158,319, 11-24-64, Cl. 236-9.
- Nelson, Marcellus. Collator for folded sheets. 3,128,092, 4-7-64, Cl. 270-54.
- Nelson, Martin L. Push-turn switching key. 3,134,862, 5-26-64, Cl. 200-4.
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- Nelson, Mervin C. Saw guide assembly. 3,119,420, 1-28-64, Cl. 143-160.
- Nelson, Milton E. Dental handpiece. 3,136,059, 6-9-64, Cl. 32-28.
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- Nelson, Norman A.: See—
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- Nelson, Norman A., to Jersey Production Research Co. Method and apparatus for borehole operations. 3,143,170, 8-4-64, Cl. 166-35.
- Nelson, Norman A., to The Upjohn Co. 25-azacholesterol N-oxide and derivatives. 3,144,471, 8-11-64, Cl. 260-397.5.
- Nelson, Norman W.: See—
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- Nelson, Joseph R., Allen, Johnson, and Nelson. 3,163,445.
- Nelson Pattern Co.: See—
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- Nelson, Permil N., to Lynn H. Ewing, d.b.a. Blackhawk Co. Weed killer tool. 3,118,402, 1-21-64, Cl. 111-7.1.
- Nelson, Permil N., to L. H. Ewing. Toe nailing device. 3,147,484, 9-8-64, Cl. 1-47.
- Nelson, Permil N., to L. H. Ewing. Adjustable carpenter's square. 3,154,857, 11-3-64, Cl. 33-93.
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- Nelson, Robert E. Pump and liquid level regulator. 3,134,332, 5-26-64, Cl. 103-22.
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- Nelson, Robert J.: See—
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- Nelson, Robert K., and A. J. Nenadal, to Eaton Mfg. Co. Multi-speed tandem drive axle mechanism. 3,146,842, 9-1-64, Cl. 180-22.
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- Nelson, Robert L. End gate mounted grain auger. 3,128,894, 4-14-64, Cl. 214-609.
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- Nelson, Roland D., and D. K. Rex, to International Business Machines Corp. Print hammer drive mechanism. 3,155,033, 11-3-64, Cl. 101-93.
- Nelson, Roland A.: See—
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- Nelson, Roy A., to Ling-Temco-Vought, Inc. Tension control device. 3,150,860, 9-29-64, Cl. 254-172.
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- Nelson, Theodore W., and J. S. McNiel, Jr., to Socony Mobil Oil Co., Inc. Recovery of hydrocarbon material from a subterranean formation by in-situ combustion. 3,126,953, 3-31-64, Cl. 166-11.
- Nelson, Thomas L.: See—
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- Nelson, Walter E., to Varian Associates. High frequency tube apparatus with fluid cooled tuner. 3,122,669, 2-25-64, Cl. 313-24.
- Nelson, Wayne F.: See—
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- Nelson, William G., IV, to E. I. du Pont de Nemours and Co. Flame retardant, moldable thermoplastic formulations based upon hydrocarbon resin, chlorinated hydrocarbon resin, and antimony trioxide. 3,121,067, 2-11-64, Cl. 260-41.
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- Nelson, Nels, and D. S. Payne, to United States Gypsum Co. Means for positioning the supporting members in a wall construction. 3,153,567, 10-20-64, Cl. 189-34.
- Nemec, Jaroslav, J. Ječmínek, and O. Čaha, to Presena mechanika, narodný podnik. Recording spirometer. 3,129,705, 4-21-64, Cl. 128-207.
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- Nemphos, Speros P., to Monsanto Co. Molecular weight regulation in polymerization of vinylidene monomers using 3-methyl-1-phenyl-pyrazolone-5 as regulator. 3,160,617, 12-8-64, Cl. 260-85.5.
- Nemphos, Speros P., and R. L. Walter, to Monsanto Co. Molecular weight regulation in polymerization of vinylidene monomers using unsaturated aldehydes as regulators. 3,160,614, 12-8-64, Cl. 260-85.5.
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- Neptune, Herman P. Cable lift pick-up unit. 3,124,385, 3-10-64, Cl. 294-89.
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- Nerheim, Arvie G., to Standard Oil Co. Gas density balance. 3,117,439, 1-14-64, Cl. 73-30.
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- Nerwin, Hubert, to Eastman Kodak Co. Automatic exposure control for photographic camera. Re. 25,635, 9-1-64, Cl. 95-10.
- Nerwin, Hubert, to Eastman Kodak Co. Roll film magazine. 3,138,081, 6-23-64, Cl. 95-31.
- Nesbitt, John D., and H. M. Kohn, to Midland-Ross Corp. Method and apparatus for heating fluids. 3,116,915, 1-7-64, Cl. 263-19.
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- Nesmith, James A. Automatic coffee brewing device. 3,143,954, 8-11-64, Cl. 99-289.
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- Neubauer, Emil T., to Copeland Refrigeration Corp. Crankcase venting arrangement for refrigerating system. 3,123,287, 3-3-64, Cl. 230-206.
- Neubauer, Emil T., and R. E. Comstock, to Copeland Refrigeration Corp. Compressor unloading means. 3,144,982, 8-18-64, Cl. 230-30.
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- Nikolai, William L. Recovery of magnesite. 3,116,974, 1-7-64, Cl. 23-201.
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- Nirenberg, Robert P., to Monsanto Co. Creasing process for thermoplastic material. 3,148,236, 9-8-64, Cl. 264-324.
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- Nischk, Günther, F. Münz, O. Bayer, and M. Theis, to Farbenfabriken Bayer Aktiengesellschaft. Polyether based polyurethane coating compositions. 3,140,273, 7-7-64, Cl. 260-77.5.
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- Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Silicone rubbers containing aliphatic diketones, keto alcohols, and ketone acid esters. 3,143,519, 8-4-64, Cl. 260-37.
- Nitzsche, Siegfried, and P. Buchheit, to Wacker-Chemie G.m.b.H. Method of preparing alkyl silanes. 3,155,698, 11-3-64, Cl. 260-448.2.
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- Nixon, Phillip. Magnetic gate valve. 3,136,332, 6-9-64, Cl. 137-416.
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- Nixon, William C., to Hilger & Watts Ltd. Electron microscope with a secondary electron source utilized for electron probe analysis. 3,155,827, 11-3-64, Cl. 250-49.5.
- Nixon, William G., to Universal Oil Products Co. Hydrocarbon conversion process and catalyst therefor. 3,130,244, 4-21-64, Cl. 260-683.15.
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- Noble, Bernard D., to Kimberly-Clark Corp. Doctor blade for differentially creping sheets from a drum. 3,163,575, 12-29-64, Cl. 162-281.
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- Noble, Ariess B. Typographic method and apparatus. 3,163,096, 12-29-64, Cl. 95-4.5.
- Noble, Billy M. Plant bed shaper. 3,153,456, 10-20-64, Cl. 172-161.
- Noble, Charles G. Cable connector. 3,137,049, 6-16-64, Cl. 24-73.
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- Noda, Tamotsu, and N. Morito, to Kabushiki Kaisha Hitachi Selsakusho. Multiple dispersion mass spectrometer. 3,126,477, 3-24-64, Cl. 250-41.9.
- Noddin, George A.: *See*—
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- Noddin, George A., and J. P. Swed, to E. I. du Pont de Nemours, and Co. Pressure responsive initiator. 3,128,704, 4-14-64, Cl. 102-70.
- Nodini, Isidoro D., 1/4 to B. E. Bell. Dust eliminator for combines. 3,125,843, 3-24-64, Cl. 56-20.
- Nodwell, William B., to Robin-Nodwell Mfg. Ltd. Overload sprocket for track laying vehicles. 3,136,171, 6-9-64, Cl. 74-243.
- Nodwell, William B. Grouser bar pad. 3,148,920, 9-15-64, Cl. 305-35.
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- Noecker, Marshall V., to Kaufman Awning Corp. Awning construction. 3,148,418, 9-15-64, Cl. 20-57.5.
- Noecker, Marshall V., to Kaufman Awning Corp. Awning construction. 3,161,924, 12-22-64, Cl. 20-57.5.
- Noecker, Paul W., to National Distillers and Chemical Corp. High pressure valve. 3,119,410, 1-28-64, Cl. 137-512.
- Noecker, Wilfred J. Intercommunication system. 3,130,273, 4-21-64, Cl. 179-40.
- Noel, Donald E. Adjustable diaper. 3,150,664, 9-29-64, Cl. 128-287.
- Noel, Harry J. Heating attachment for electric light bulb. 3,151,235, 9-29-64, Cl. 219-45.
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Oakley, Sterling A., to Oakley Industries, Inc. Tube cutting apparatus. 3,138,308, 6-23-64, Cl. 225-2.

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O'Barski, Joseph J. Foot rest attachment for bicycles. 3,133,749, 5-19-64, Cl. 280-291.

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Goldstein, Irving S., and Oberley. 3,160,515.

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- Mackay, Ralph S., Marg, and Oechsli. 3,150,521.
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- Oehmig, Robert G. Adjustable door stop and weatherstrip. 3,142,098, 7-28-64, Cl. 20-69.
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- Page, Robert Z. Biological detection equipment. 3,128,239, 4-7-64, Cl. 195-127.
- Page, Robert Z., and J. W. Terrill. Biological detection equipment. 3,129,144, 4-14-64, Cl. 195-127.
- Pagebar, Inc.: See—
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- Page-Roberts, Nigel W. H., G. Rhodes, and G. J. Pauli, to Doris Wykes, executrix of the late F. Wykes. Liquid-fuel burning apparatus. 3,118,490, 1-21-64, Cl. 158-28.
- Pages, Inc.: See—
Asher, Sidney. 3,121,953.
- Paget, John A.: See—
Boyd, Winnett, Paget, and Lynn. 3,149,045.
- Paglee, Edgar H., to Stewart-Warner Corp. Code mechanism having a permanent magnet slidably received in an aperture in a magnetic member. 3,158,710, 11-24-64, Cl. 200-87.
- Pagliano, Lodovico. Bookkeeping device. 3,120,399, 2-4-64, Cl. 282-29.
- Paglis, James P., and B. A. Ritzenthaler, to Standard Oil Co. Gas chromatography. 3,120,749, 2-11-64, Cl. 73-23.
- Pagliuso, Robert J. Model helicopter. 3,127,696, 4-7-64, Cl. 46-75.
- Pagni, Georges L.: See—
Ceyzerlat, Louis F., and Pagni. 3,151,099.
- Pagnotti, Joseph R. Method and apparatus for sewage treatment. 3,152,982, 10-13-64, Cl. 210-7.
- Pagny, Pierre: See—
Brodsky, Michel, and Pagny. 3,120,994.
- Pagonis, George A., to Light Metals Research Laboratory, Inc. Continuous vacuum and inert gas process for treating titanium and other metals. 3,116,998, 1-7-64, Cl. 75-45.
- Pahl, William M., and R. E. Adams, to H. K. Porter, Co. Inc. Transformer cover locking device. 3,154,829, 11-3-64, Cl. 24-279.
- Pahl, Charles G.: See—
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- Pahl, John G. Pole-top switch structure. 3,144,526, 8-11-64, Cl. 200-48.
- Pahl, John G. Pole top disconnect switch. 3,145,272, 8-18-64, Cl. 200-48.
- Pahl, John G. Pole-top switch with vertically swingable switching arm. 3,145,273, 8-18-64, Cl. 200-48.
- Pahn, Jose: See—
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- Pahnke, Hans-Joachim, and P. Roux, to Maschinenfabrik Sack G.m.b.H. and L. Morane Etablissements. Extrusion presses. 3,120,304, 2-4-64, Cl. 207-1.
- Paidar, Emil J. Co.: See—
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Shubart, Harry S., and Dlouhy. 3,140,892.
Segal, Burton L. 3,116,955.
Segal, Burton L., and Newman. 3,116,952.
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- Paige, Bernice E., K. I. Rohde, and B. J. Newby, to United States of America, Atomic Energy Commission. Emulsion control in liquid-suspension extraction. 3,154,376, 10-27-64, Cl. 23-14.5.
- Paige, Richard E. Folding box. 3,131,849, 5-5-64, Cl. 229-34.
- Paige, Richard E. Box or carton with locking means. 3,161,343, 12-15-64, Cl. 229-35.
- Paillard S.A.: See—
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Grosjean, Arnold. 3,135,185.
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Thevenaz, Jean. 3,135,157.

Paille, Willbrod A., G. Belli, and F. M. Fowler, to General Electric Co. Method and apparatus for producing blades. 3,147,539, 9-8-64, Cl. 29-156.8.

Paillet, Rene. Apparatus for gauging fruit and the like articles. 3,117,070, 1-14-64, Cl. 209-83.

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Beaver, Wallace W., Paine, and Stonehouse. 3,150,970.
Beaver, Wallace W., Paine, and Stonehouse. 3,150,975.
Stonehouse, Albert J., and Paine. 3,150,968.

Paine, Stuart R., H. E. Johnson, W. A. Mauch, and W. P. Sells, to Moderne Products Co., Inc. Foldable bed frame. 3,123,837, 3-10-64, Cl. 5-181.

Painter, Edwin S., R. C. Petrey, and J. H. Jensen, Jr., to Eastman Kodak Co. Process for the production of ketene and acetic anhydride. 3,130,811, 6-9-64, Cl. 260-546.

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Snyder, Donald L., Pfeifferle, Fluk, Nordstrom, and Painter. 3,146,124.

Painton & Co. Ltd.: See—
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Pais, Bram, to The Budd Company. Explosives actuated hardness tester. 3,159,025, 12-1-64, Cl. 73-82.

Paisley, John, to Eastwoods Ltd. Apparatus for stacking or setting up bricks. 3,128,890, 4-14-64, Cl. 214-6.

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Canty, John M., Driscoll, Paivanas, and Snyder. 3,134,237.

Paivanas, John A., A. W. Francis, and D. I. J. Wang, to Union Carbide Corp. Insulation construction. 3,133,422, 5-19-64, Cl. 62-50.

Pajackowski, Andrzej, to Imperial Chemical Industries Ltd. Polymerisation process. 3,129,206, 4-14-64, Cl. 260-88.7.

Pajes, Wolf S. Sound recording and reproducing apparatus. 3,145,267, 8-18-64, Cl. 179-100.2.

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Kallenberg, Karl J. 3,155,025.
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Pakwer, Serge, and J. J. Dowd, to The Rauland Corp. Method of forming vacuum seals. 3,153,839, 10-27-64, Cl. 29-155.5.

Pakvis, Adrianus, to Rockwell Mfg. Co. Valve structure. 3,135,494, 6-2-64, Cl. 251-188.

Palange, Walter. Knitting machine. 3,143,868, 8-11-64, Cl. 66-1.

Palazzo, Giuseppe, and B. Silvestrini, to Angelini Francesco, Azienda Chimiche Riunite. 1,2,4-oxadiazoles and processes for producing the same. 3,141,019, 7-14-64, Cl. 260-247.5.

Palazzolo, Frank. Flexible hinge device for containers having a curved side. 3,135,456, 6-2-64, Cl. 229-44.

Palen, Peter H. Pressure control switch. 3,118,030, 1-14-64, Cl. 200-82.

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Dorsa, Frank J., Palermo, and Catalina. 3,134,413.

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Pall, David B., and Siebel. 3,124,959.
Pall, David B., and Keedwell. 3,158,532.
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Siebel, Mathias P. L. 3,140,690.

Pall, David B., to Pall Corp. Manometer. 3,122,924, 3-3-64, Cl. 73-101.

Pall, David B., and M. P. L. Siebel, to Pall Corp. Primary differential pressure sensing elements and transducers. 3,124,959, 3-17-64, Cl. 73-407.

Pall, David B., and C. A. Keedwell, to Pall Corp. Tapered pore filter elements. 3,158,532, 11-24-64, Cl. 162-103.

Pallach, Walter, to Hauni-Werke Korder & Co. K.G. Head mold for the rolling mold in a cigar making machine. 3,116,740, 1-7-64, Cl. 131-30.

Palladino, Michael J., to General Electric Co. Color television demodulation network. 3,133,987, 5-19-64, Cl. 178-5.4.

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Pallansch, Michael J.: See—
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Pallencher, Jacques: See—
Conste, Pierre B., Trenteseaux, and Pallencher. 3,137,340.

Palleon Electronics Ltd.: See—
Gelhar, Willy O. 3,134,986.

Paller, Frederick C., to Superior Industries, Inc. Battery clamping device. 3,125,177, 3-17-64, Cl. 180-68.5.

Paller, Frederick C., Jr., to Superior Industries, Inc. Safety belt buckle. 3,120,040, 2-4-64, Cl. 24-77.

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Soenksen, Hans, Stanger, Palm, and Schmidt. 3,153,096.

Palm, Bernhard N., to Electra Motors, Inc. Variable speed drive. 3,154,959, 11-3-64, Cl. 74-230.17.

Palm, Bert E., to The Lubrizol Corp. Phosphating process. 3,144,360, 8-11-64, Cl. 148-6.15.

Palm, Clifford W., and W. R. Gibson, to Celanese Corp. of America. Apparatus for producing a composite novelty slub yarn. 3,144,747, 8-18-64, Cl. 57-34.

Palm, Felix. Disposable tray and blank. 3,139,255, 6-30-64, Cl. 248-150.

Palm, Felix L. Container holder and blank. 3,128,984, 4-14-64, Cl. 248-311.

Palm, William W. Hot water heating system. 3,116,876, 1-7-64, Cl. 237-8.

Palm, William W., to Continental Rollers, Inc. Fire tube boiler. 3,153,429, 10-20-64, Cl. 138-38.

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Palmer, Basil S., to Packers Supply Co. Ltd. Tool for applying binding strapping, wire and the like about articles. 3,144,888, 8-18-64, Cl. 140-93.2.

Palmer, Berthold L. Pedal depressors for vehicle brakes. 3,143,002, 8-4-64, Cl. 74-532.

Palmer, Charles E., and J. S. Lemanski, said Lemanski assor. to said Palmer. Multi-compartment carton and blank therefor. 3,130,894, 4-28-64, Cl. 229-28.

Palmer, Everett M. Animal feeder and insecticide dispenser. 3,137,274, 6-16-64, Cl. 119-157.

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Palmer, James E., and J. T. Swaim, to Radio Corp. of America. Oscillator with triggerable phasing. 3,133,257, 5-12-64, Cl. 331-113.

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Palmer, Jewell S., to Esso Research and Engineering Co. Heat pump. 3,157,227, 11-17-64, Cl. 165-29.

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Palmer, Jeanne V. Layout template for picture framing mats. 3,156,984, 11-17-64, Cl. 33-189.

Palmer, John E., to Golden Arrow Mfg. Ltd. Row crop sprayer. 3,117,725, 1-14-64, Cl. 239-168.

Palmer, John S., to International Harvester Co. Combination cylinder type threshing machine and rotating separating drum. 3,126,893, 3-31-64, Cl. 130-27.

Palmer, Leon E., to International Business Machines Corp. Escapement mechanism for typewriter. 3,126,998, 3-31-64, Cl. 197-82.

Palmer, Leon E., to International Business Machines Corp. Print interlock for typewriter. 3,157,265, 11-17-64, Cl. 197-16.

Palmer, Lewis E., to Union Insulating Co., Inc. Molded plastic outlet boxes with attached metal mounting brackets. Re. 25,593, 6-9-64, Cl. 220-3.9.

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Palmer, Oskar, and K. Gies, to Baustahlgewebe G.m.b.H. Rod rolling method. 3,136,054, 6-9-64, Cl. 29-547.

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Palmer Products Co.: See—
Palmer, Anthony J. and R. L. 3,162,371.

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Chell, Glenn J., Buderus, and Palmer. 3,128,852.

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Palmer, Warren G., to American Machine & Foundry Co. Deviation measuring and computing system. 3,146,344, 8-25-64, Cl. 235-151.

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Palmer, William F., to Sylvania Electric Products Inc. Multivibrator circuit employing transistors of complementary types. 3,121,802, 2-18-64, Cl. 307-68.5.

Palmer, William H., and R. B. Wallis, to General Motors Corp. Plate type friction coupling. 3,157,057, 11-17-64, Cl. 74-378.

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Palopoli, Frank P., H. D. Benson, R. E. Allen, and E. L. Schumann. Heterocyclic derivatives of diarylethanes and diarylethylenes. 3,135,745, 6-2-64, Cl. 260-240.

Palopoli, Frank P., H. D. Benson, R. E. Allen, and E. L. Schumann, to Richardson-Merrell Inc. Piperidyl and cycloalkyl derivatives of 1,1- and 1,2-diarylethanol. 3,150,144, 9-22-64, Cl. 260-294.7.

Pals, Jan, to North American Philips Co., Inc. Armature winding apparatus. 3,121,539, 2-18-64, Cl. 242-13.

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Berry, Virgil J., Jr. 3,126,936.
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Peterson, Robert G., Panek, and Shulte. 3,156,513.

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- Paone, Anthony N., to SCM Corp. Ribbon spool cover suspension mechanism. 3,123,196, 3-3-64, Cl. 197-186.
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- Papacosta, John P., and R. W. Crews, to A. B. Dick Co. Evaporator vacuum pump. 3,149,716, 9-22-64, Cl. 206-4.
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- Pape, August C. Gasoline transfer container. 3,124,149, 3-10-64, Cl. 137-150.
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- Papp, Roger: See—
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- Paquette, Leo A., to The Upjohn Co. 3-oxo-2-azabicyclo-[3.2.2] non-6-ene-8,8,9,9-tetracarboxitriles. 3,152,118, 10-6-64, Cl. 260-239.3.
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- Pariser, Jack J., and A. M. Jusko, to Hughes Aircraft Co. Binary rate multiplier. 3,126,476, 3-24-64, Cl. 235-164.
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- Parker, Warren H., 1/4 to C. W. Butler, 1/4 to C. Bork, and 1/4 to N. O. Knutson. Brake shoe setting gauge. 3,143,809, 8-11-64, Cl. 23-180.
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Kollar, Gyula, Sipos, and Pato. 3,139,433.

Paton, Alexander C.: See—
Johnson, Francis, and Paton. 3,153,041.

Patrick, Alan E.: See—
Robinson, Ralph C., Patrick, and Morrison. 3,136,985.

Patrick, Charles T., Jr.: See—
McGary, Charles W., Jr., and Patrick. 3,128,255.
Phillips, Benjamin, Starcher, McGary, and Patrick. 3,153,018.

Patrick, Charles T., Jr., C. W. McGary, Jr., P. S. Starcher, and B. Phillips, to Union Carbide Corp. Method of coating with a composition comprising a polyepoxide and a partial fatty ester of a polyol. 3,126,298, 3-24-64, Cl. 117-161.

Patrick, Ernest G., to Robbins Aviation, Inc. Removable head and seat valve unit. 3,119,408, 1-28-64, Cl. 131-454.5.

Patrick, James B.: See—
Cosulich, Donna B., Patrick, and Williams. 3,152,954.

Patrick, James B., and J. S. Webb, to American Cyanamid Co. Anhydro apo mitomycin compounds. 3,140,293, 7-7-64, Cl. 260-319.

Patrick, James H.: See—
Evans, Dewey M., Patrick, Rudlaff, and Weathers. 3,153,419.

Patrick, Malcolm W., to Hupp Corp. Temperature control system with portable thermostat. 3,159,212, 12-1-64, Cl. 165-26.

Patrick, Paul D., Jr., to West Virginia Pulp and Paper Co. Treatment of tall oil fatty acids. 3,157,629, 11-17-64, Cl. 260-97.5.

Patrick, Robert L., and C. T. Esposito, to Alpha Research and Development, Inc. Desiccant container with desiccant saturation indicator. 3,142,830, 7-28-64, Cl. 340-235.

Patrick, Rudolph R.: See—
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Patrignani, Theo, to Centre d'Etudes et d'Applications des Techniques de Production. Handling apparatus. 3,150,787, 9-29-64, Cl. 214-514.

Patrignani, Theo, to Centre d'Etudes et d'Applications des Techniques de Production. Transmission device. 3,153,940, 10-27-64, Cl. 74-250.

Patrinquin, George P., and N. R. Adler, to Independent Lock Co. Residential lock assembly. 3,128,115, 4-7-64, Cl. 29-336.3.

Patrinquin, George P., and N. R. Adler, to Independent Lock Co. Retainer means for cylindrical locks. 3,128,116, 4-7-64, Cl. 292-358.

Patry, Ernest: See—
Patry, Harvey L., F. J. E., and Lamont. 3,123,188.

Patry, Francis J.: See—
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Patry, Harvey L., F. J. E., and H. B. Lamont, to Lamont & Riley, Inc. Expansion joints for metal panels. 3,123,188, 3-3-64, Cl. 189-36.

Pattee, John R., to Daystrom Inc. Integrating apparatus using a torque converter rebalanced by the output of a generator driven by the converter output. 3,128,429, 4-7-64, Cl. 324-99.

Patten, Julius. Mobile container for carrying and accommodating domestic animals. 3,156,213, 11-10-64, Cl. 119-19.

Patterson, Carlos W.: See—
Patterson, Lee R., and C. W. 3,132,876.

Patterson, Charles E. Tap shoes and taps therefor. 3,121,287, 2-18-64, Cl. 36-8.3.

Patterson, Charles H.: See—
Martin, Stanley W., and Patterson. 3,148,816.

Patterson, Gillette V., to Swartwout Fabricators, Inc. Roof ventilator. 3,122,088, 2-25-64, Cl. 98-43.

Patterson, Edward J., Jr.: See—
Gatlin, Frank B., Guerrant, Patterson, and Snider. 3,132,844.

Patterson, George C.: See—
Ragland, Benjamin, and Patterson. 3,162,364.

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Nickerson, Mortimer H., Schnitzer, Curtis, and Patterson. 3,129,191.

Patterson, Harry F., and T. E. Little. Handled implement holder for shopping carts. 3,129,916, 4-21-64, Cl. 248-113.

Patterson, Hugh T., and A. J. Strohmaier, to E. I. du Pont de Nemours and Co. Rope finish. 3,155,537, 11-3-64, Cl. 117-138.8.

Patterson Industries, Inc.: See—
Enriklin, Raymond A. 3,149,823.

Patterson-Kelly Co., Inc.: See—
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Patterson, Kenneth H., to United States of America. Army. Broad band frequency multiplier and mixer. 3,143,109, 8-4-64, Cl. 328-133.

Patterson, Lawrence W., to Vita-Pakt Citrus Products Co. Display stands. 3,151,576, 10-8-64, Cl. 108-2.

Patterson, Lawrence W., to Vita-Pakt Citrus Products Co. Display stand. 3,151,744, 10-8-64, Cl. 211-49.

Patterson, Lee R., and C. W. Walking beam split tandem axle assembly. 3,132,876, 5-12-64, Cl. 280-104.5.

Patterson, Morehead, to American Machine & Foundry Co. Cigarette making machine. 3,128,773, 4-14-64, Cl. 131-62.

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Floyd, Harmanson H., and Patterson. 3,132,672.

Patterson, William A., to Fort Pitt Bridge Works. Method and apparatus for producing glass beads. 3,151,965, 10-8-64, Cl. 65-21.

Patterson, William C., to Nebraska Engineering Co. Self-centering auger apparatus. 3,155,247, 11-3-64, Cl. 214-17.

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Best, Frank E., and Patterson. 3,137,892.

Patterson, Woodrow W. Pin dispenser. 3,146,042, 8-25-64, Cl. 312-73.

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Patton, George H., to Sawyer's Inc. Collapsible plastic stereoscopic viewer. 3,145,253, 8-18-64, Cl. 88-29.

Patton, Henry W., to Acromag, Inc. Magnetic amplifier and controlling device. 3,123,764, 3-3-64, Cl. 323-56.

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Dannenmann, Paul, and Patzelt. 3,116,881.
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Patzelt, Klaudius, and K. Lengsfeld, to G. Bauknecht, G.m.b.H. Detergent dispenser for washing machines. 3,160,319, 12-8-64, Cl. 222-54.

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Patzig, Rondo H.: See—
Daigh, Harold D., and Patzig. 3,157,467.

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Paul, Adolf, to Steinbock G.m.b.H. Transport vehicle for aircraft. 3,119,502, 1-28-64, Cl. 214-505.

Paul, Albert P., and R. F. Beidler, to American Cyanamid Co. Preparation of pure alpha-naphthalene sulfonic acid and alpha-naphthol. 3,155,716, 11-3-64, Cl. 260-505.

Paul, Archie J., Jr., to International Business Machines Corp. Information handling apparatus. 3,130,399, 4-21-64, Cl. 340-347.

Paul, Carl E., to General Electric Co. Electrical capacitor protective arrangement. 3,155,876, 11-3-64, Cl. 317-12.

Paul, Carlton H., and H. J. Wood, to The Garrett Corp. Gas turbine compressor. 3,163,003, 12-29-64, Cl. 60-39.36.

Paul, Charles C., and N. T. Kuypers, to National Steel Corp. Metallic building construction. 3,124,224, 3-10-64, Cl. 189-64.

Paul, Harry C. Endless flexible track for vehicles. 3,123,410, 3-3-64, Cl. 305-35.

Paul, James T., Jr., to United States of America. Navy. Organic explosive compositions suitable for weapon casings. 3,147,162, 9-1-64, Cl. 148-19.

Paul, Mahrie F., to Pasco Air-Aid, Inc. Auxiliary vehicle air spring. 3,140,083, 7-7-64, Cl. 267-15.

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Paul, Siegfried, and A. Hoppmann, to H. Wohlenberg Kommanditgesellschaft. Magnetizable memory system. 3,162,859, 12-22-64, Cl. 346-74.

Paul, Stephen H.: See—
Achterberg, Arthur C., and Paul. 3,118,651.

Paul, Tadeusz. Handle soap sponge. 3,128,493, 4-14-64, Cl. 15-542.

Paul, Theodore R. Dynamo-electric machine commutator construction. 3,146,364, 8-25-64, Cl. 310-236.

Pauldine, Eugene E. Curling iron having detachable curling tube. 3,135,269, 6-2-64, Cl. 132-33.

Paulding, Herbert L., and R. T. Yu, to Dow Jones & Co., Inc. Printing telegraph systems. 3,154,635, 10-27-64, Cl. 178-4.1.

Paulie, Wilhelm, and A. Lichtenberger, to Robert Bosch, G.m.b.H. Light control arrangement for vehicles. 3,139,655, 6-30-64, Cl. 315-82.

Pauler, Charles J., and J. F. Schmitz, to Whirlpool Corp. Vacuum cleaner nozzle. 3,120,021, 2-4-64, Cl. 15-377.

Pauler, Charles J., and G. A. Westergren, to Whirlpool Corp. Bag changer for use in vacuum cleaner. 3,132,932, 5-12-64, Cl. 55-376.

Pauls, Clair E., to Baker Perkins Inc. Jacketed dough mixer. 3,126,054, 3-24-64, Cl. 165-109.

Pauley, Robert P., and O. T. Ralph. Method of filling and loading containers. 3,142,396, 7-28-64, Cl. 214-152.

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Stockton, North J., and Pauli. 3,131,453.

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Pauli, Julius A., to Lockheed Aircraft Corp. Petal type door for cargo aircraft. 3,128,068, 4-7-64, Cl. 244-129.

Paulik, Ferenc and J., and L. Erdey. Apparatus for the determination of the evaporation curve for liquids by the thermogravimetric method. 3,135,107, 6-2-64, Cl. 73-17.

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- Paulini, Harry H. J. Flag and staff novelty item. 3,138,249, 8-23-64, Cl. 206-47.
- Paulin, Bernard, and J. Radder, to Shell Oil Co. Propylene polymerization. 3,137,739, 6-16-64, Cl. 260-683.15.
- Pauli, Graham J.: See—
- Page-Roberts, Rhodes, and Pauli. 3,118,490.
- Pauli, Marvin C., to Bell Telephone Laboratories, Inc. Switching network control system. 3,129,407, 4-14-64, Cl. 340-147.
- Pauli, Raymond C., to Radio Corp. of America. Cathode grid assembly for electron gun. 3,145,318, 8-18-64, Cl. 313-82.
- Pauli, Stephen, to United States of America, National Aeronautics and Space Administration. Variable frequency magnetic multivibrator. 3,128,389, 4-7-64, Cl. 307-88.
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- Paulus, Clarence L., and W. M. Allen, to Merck & Co., Inc. Aerosol device. 3,157,179, 11-17-64, Cl. 128-211.
- Paulsen, Harold A. Combination hallway and disappearing dressing room. Re. 25,690, 11-24-64, Cl. 20-2.
- Paulsen, Jean F., to Societe Luxembourgeoise de Brevets et de Participations. Dynamic dampers. 3,117,467, 1-14-64, Cl. 74-574.
- Paulsen, Jean F., to Societe Luxembourgeoise de Brevets et de Participations. Compression springs made of an elastomer. 3,118,659, 1-21-64, Cl. 267-35.
- Paulsen, Jean F., to Societe Luxembourgeoise de Brevets et de Participations. Devices for forming a resilient connection between two parts of structures. 3,120,382, 2-4-64, Cl. 267-63.
- Paulsen, Jean F., to Luxembourgeoise de Brevets et de Participations. Resilient connecting devices. 3,154,273, 10-27-64, Cl. 248-22.
- Paulsen, Paul L.: See—
- Albertson, Walter H., L. J., Paulsen, and Richter. 3,141,587.
- Paulsen, Reidar, deceased (S. D. Paulsen, heir of the estate of said R. Paulsen). Luminous coating method, composition and decalcomania. 3,120,448, 2-4-64, Cl. 117-33.5.
- Paulsen, Robert C.: See—
- Hilsenrath, Manfred, and Paulsen. 3,162,771.
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- Paulsen, Reidar. 3,120,448.
- Paulson, Carl: See—
- Johnson, Edwin W., and Paulson. 3,137,485.
- Paulson, Clifford W.: See—
- Grevich, John J., and Paulson. 3,161,001.
- Paulson, Harold E. Drive-in packet. 3,147,789, 9-8-64, Cl. 150-35.
- Paulson, Kenneth H. Invalid's chair. 3,123,400, 3-3-64, Cl. 297-314.
- Paulson, Loree A. D.: See—
- Kurt, Ewald H., Lewia, and Paulson. 3,155,171.
- Paulson, Paul G. Sign holders. 3,143,817, 8-11-64, Cl. 40-125.
- Paulson, Roy W.: See—
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- Paulson, William A., to Barber-Colman Co. Radio frequency discriminator circuit. 3,127,563, 3-31-64, Cl. 325-466.
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- Vallier, Robert L., and Paulsen. 3,144,137.
- Paulsen, Walter A., to Manning, Maxwell & Moore, Inc. Wheel chock locking device for rail vehicles. 3,132,722, 5-12-64, Cl. 188-36.
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- Hansel, Paul G., Richter, and Paulstich. 3,129,392.
- Hansel, Paul G., Richter, and Paulstich. 3,157,878.
- Paulton, Richard A., to The Cincinnati Milling Machine Co. Metal spinning machine. 3,127,861, 4-7-64, Cl. 113-52.
- Paulus, Edward F., to Roto Actuator Corp. Oscillating hydraulic motor having compressible sealing means. 3,131,610, 5-5-64, Cl. 92-125.
- Paulus, Henry G. Cap applicator. 3,129,543, 4-21-64, Cl. 53-67.
- Pauly, Bruce H., to The Weatherhead Co. Two volume pump. 3,152,555, 10-13-64, Cl. 103-173.
- Pauri, Carlo A.: See—
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- Paustian, John E., and D. M. Gardner, to Thiokol Chemical Corp. Alkylpentaborane (9) and method for its preparation. 3,155,731, 11-3-64, Cl. 260-606.5.
- Paustian, John E., S. Mutnick, and M. M. Fein, to Thiokol Chemical Corp. Bis(c-alkylhydrozino) decaboranes and method of making same. 3,158,651, 11-24-64, Cl. 260-564.
- Pauwels, Constant, to Pauwels & DeRidder P.V.B.A., Firma. Device with movable panels for closing and opening passages, more especially in horizontal partition walls. 3,120,034, 2-4-64, Cl. 20-19.
- Pauwels & DeRidder P.V.B.A., Firma: See—
- Pauwels, Constant. 3,120,034.
- Pavek, Miloslav, and J. Havlas, to Sdruzeni podniku textilniho strojirenstvi. Device for separating the fibres and conveying the separated fibres. 3,127,730, 4-7-64, Cl. 57-58.91.
- Pavelic, Vjekoslav, and R. W. Goeldner, to Aqua-Chem, Inc. Flash chamber structure. 3,161,558, 12-15-64, Cl. 159-2.
- Pavicevic, Strahinja S. Resilient split core and shell for moulding apparatus. 3,158,907, 12-1-64, Cl. 18-45.
- Paviso, Ronald D., to The Marquardt Corp. Cryogenic glass-to-metal seal. 3,151,763, 10-6-64, Cl. 220-46.
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- Claywell, Jack W., and Pavlak. 3,162,238.
- Pavliath, Attila E.: See—
- Pavliath, Harry A., and Pavliath. 3,132,925.
- Pavliath, Attila E., and F. H. Walker. Titania catalyzed dehydrofluorination of 1,1,1-difluoroalkanes. 3,118,005, 1-14-64, Cl. 260-653.5.
- Pavlecka, John. Interlocked panel structure. 3,160,245, 12-8-64, Cl. 189-34.
- Pavlecka, John. Linear interlocking key or spline. 3,160,249, 12-8-64, Cl. 189-36.
- Pawl, John. Insect trap. 3,152,420, 10-13-64, Cl. 43-139.
- Pawley, Jess W.: See—
- Pocock, Terrance H., and Pawley. 3,136,533.
- Pawloski, Chester E.: See—
- Sterling, George B., and Pawloski. 3,117,134.
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- Sterling, George B., and Pawloski. 3,134,788.
- Pawloski, Chester E., to The Dow Chemical Co. Propynyl p-phenylene diamines. 3,121,116, 2-11-64, Cl. 260-577.
- Pawloski, Chester E., to The Dow Chemical Co. Propynyl p-nitroanilines. 3,121,745, 2-18-64, Cl. 260-577.
- Pawloski, Chester E., to The Dow Chemical Co. Propynyl p-naphthylamines. 3,121,746, 2-18-64, Cl. 260-577.
- Pawloski, Chester E., and G. B. Sterling, to The Dow Chemical Co. Esters of 4,7-dihydro-1,3-dioxepin-2-acetic acid. 3,135,768, 6-2-64, Cl. 260-338.
- Pawloski, Chester E., to The Dow Chemical Co. N-(2-propynyl) o-bromoaniline. 3,149,160, 9-15-64, Cl. 260-577.
- Pawloski, Robert J., to Electro-Voice, Inc. Loudspeaker system. 3,125,181, 3-17-64, Cl. 181-31.
- Pawloski, Walter F.: See—
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- Pawlus, Rudolf: See—
- Gehlen, Hermann, Eberhard, Pawlus, and Brockmann. 3,152,569.
- Pawsey, Harold O. Hanger bracket. 3,153,526, 10-20-64, Cl. 248-221.
- Paxhia, Emanuel F., and R. M. La Porte, to United States of America, Navy. Landing gear. 3,121,547, 2-18-64, Cl. 244-102.
- Paxson, Edward: See—
- Widmer, Thomas F., and Paxson. 3,163,583.
- Paxson, Gordon D., Jr., to United States of America, Atomic Energy Commission. Fractionating column product collector control. 3,124,172, 3-10-64, Cl. 141-130.
- Paxton, Elisha W., to W. H. F. Schmieding. Apparatus for controlling the flow of molten silicates through throat type continuous melting furnaces. 3,160,692, 12-8-64, Cl. 13-6.
- Paxton, Kenneth P.: See—
- Paxton, Stanley K. and K. P., and Evans. 3,126,685.
- Paxton, Stanley K. and K. P., and E. E. Evans, to Paxton Sales Corp. Machine for simultaneously closing top and bottom of cardboard carton. 3,126,685, 3-31-64, Cl. 53-138.
- Payer, John L. Single-axis autopilot for aircraft. 3,143,320, 8-4-64, Cl. 244-12.
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- Payet, Peel R. Process and conveyor device for feeding sugar cane in a mill train. 3,120,173, 2-4-64, Cl. 100-70.
- Payne, Albert E. Sheet material stamping die. 3,129,744, 4-21-64, Cl. 153-2.
- Payne, Alford R. Amusement device comprising an eccentrically rotatable ball-like object. 3,157,961, 11-24-64, Cl. 46-51.
- Payne, Arthur R.: See—
- More, Arthur R., and Payne. 3,152,469.
- Norman, Ronald H., Newell, and Payne. 3,160,233.
- Payne, Arthur W., to Bundy Tubing Co. Press and feed mechanism therefor. 3,136,351, 6-9-64, Cl. 153-2.
- Payne, Arthur W., to Bundy Tubing Co. Press for performing work on metal workpieces. 3,143,008, 8-4-64, Cl. 78-17.
- Payne, Duncan S.: See—
- Nelson, Nels, and Payne. 3,153,467.
- Payne, Elmer C., to Sylvania Electric Products Inc. Electro-luminescent lamp. 3,154,712, 10-27-64, Cl. 313-108.
- Payne, George B., and P. H. Williams, to Shell Oil Co. Glycidyl glycidate and the preparation of epoxyalkyl esters of epoxyalkanoic acids from epoxyalkanal. 3,136,788, 6-9-64, Cl. 260-348.
- Payne, Harry R.: See—
- Hadley, David C., Payne, and Raoul. 3,158,290.
- Payne, Harry R., to Cavalier Corp. Shelf assembly for vending machines. 3,117,663, 1-14-64, Cl. 193-40.
- Payne, Harry R., to The Seeburg Corp. Dispensing mechanism with motor driven regulator. 3,151,770, 10-6-64, Cl. 221-15.
- Payne, Harry R., to The Seeburg Corp. Dispensing mechanism for articles in staggered stack. 3,151,772, 10-6-64, Cl. 221-67.

- Payne, Harry R., to The Seeburg Corp. Chain and common bar mechanism for superimposed vending machine. 3,151,774, 10-6-64, Cl. 221-125.
- Payne, James A., to United States of America, Army. Track maintenance tool. 3,150,859, 9-29-64, Cl. 254-51.
- Payne, James T., to Ranco Inc. Control apparatus. 3,121,335, 2-18-64, Cl. 74-2.
- Payne, James T., to Standard-Thomson Corp. Fluid control apparatus. 3,146,948, 9-1-64, Cl. 236-93.
- Payne, John, to Monsanto Chemicals Ltd. Production of shell moulds. 3,148,422, 9-15-64, Cl. 22-196.
- Payne, John H., Jr. Wheel alignment gage. 3,128,561, 4-14-64, Cl. 33-203.2.
- Payne, John W., to Socony Mobil Oil Co. Rejuvenation of platinum catalyst. 3,140,263, 7-7-64, Cl. 252-412.
- Payne, John W., to Socony Mobil Oil Co., Inc. Restoration of catalyst by surface grinding. 3,160,998, 12-15-64, Cl. 51-313.
- Payne, Matthew H.: See—
- Pano, Peter V., Clark, and Payne. 3,133,712.
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- Bryant, Clifford A., Hackney, and Payne. 3,160,125.
- Payne, William H., to Dresser Industries, Inc. Poppet-type valve construction. 3,124,152, 3-10-64, Cl. 137-269.5.
- Payne, William H., and R. E. Henry, to Dresser Operations, Inc. Expansion engine. 3,150,565, 9-29-64, Cl. 91-280.
- Paynter, Allison L., and C. W. Gipe, to The Ryan Aeronautical Co. Means and method for explosive forming materials at high temperatures. 3,128,732, 4-14-64, Cl. 113-44.
- Paynter, Donald A., to General Electric Co. Voltage control circuits. 3,156,860, 11-10-64, Cl. 321-18.
- Paynter, Donald A., and G. Jansen, to General Electric Co. Transmitter-receiver switch utilizing resonant circuits and oppositely poled parallel diodes for isolation. 3,117,241, 1-7-64, Cl. 307-88.5.
- Payson, James Z., and G. T. Trifonoff, to The Boeing Co. Aircraft nose gear tow means for catapult launching. 3,155,345, 11-3-64, Cl. 244-63.
- Payson, Peter, to Crucible Steel Co. of America. Ultra high strength steel. 3,148,980, 9-15-64, Cl. 75-126.
- Payton, Don E., and W. S. Pattison, to General Electric Co. Anti-tip device. 3,150,905, 9-29-64, Cl. 312-276.
- Payton, Willis E. Apparatus for constructing metallic bins. 3,131,908, 5-5-64, Cl. 254-89.
- Pazderski, Roman R.: See—
- Stremke, William F., W. F. Stremke, Jr., and Pazderski. 3,154,900.
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- Lange, William F., and Sloan. 3,117,619.
- Peabody, Glenn R.: See—
- Tyma, Louis S., Jr., and Peabody. 3,127,834.
- Peabody, Ralph C., and K. N. Krier, to The G. H. Tennant Co. Power sweeper air filter and dust collector system. 3,160,908, 12-15-64, Cl. 15-340.
- Peabody Seating Co., Inc.: See—
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- Peacock, Finley C. Hook ring attachment. 3,160,304, 12-8-64, Cl. 215-100.
- Peacock, Francis B.: See—
- Wadsworth, Alexander S. C., and Peacock. 3,117,824.
- Peake, John S., to Minnesota Mining and Mfg. Co. Cyclosilazane compounds. 3,140,288, 7-7-64, Cl. 260-288.
- Peake, Stephen L.: See—
- Domash, Lionel, Odioso, and Peake. 3,153,677.
- Peale, Robert E.: See—
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- Pearce, Albert E., and K. L. Jordan, to West Virginia Pulp and Paper Co. Live-bottom bin. 3,117,671, 1-14-64, Cl. 209-106.
- Pearce, Arnold P., 1/2 to Cochran and Co., Annan, Ltd. Steam boilers and generators. 3,136,297, 6-9-64, Cl. 122-31.
- Pearce, David A., to Chemagro Corp. Method of making a granular pesticide composition containing a liquid pesticide. 3,137,618, 6-16-64, Cl. 167-42.
- Pearce, David A., to Chemagro Corp. Method for making pesticide composition of a pesticide-resin mixture coated on granules. 3,143,460, 8-4-64, Cl. 167-42.
- Pearce, Dennis W.: See—
- Ames, Lloyd L., Fullerton, and Pearce. 3,136,715.
- Pearce, George C.: See—
- Bremer, Robert D., and Pearce. 3,132,229.
- Pearce, George C., to General Motors Corp. Switch mounting arrangement for a cooking top. 3,160,737, 12-8-64, Cl. 219-451.
- Pearce, George C., J. L. Evans, M. E. Fry, and F. L. Milburn, to General Motors Corp. Domestic cooking appliance. 3,157,175, 11-17-64, Cl. 126-37.
- Pearce, George C., J. L. Evans, M. E. Fry, and F. L. Milburn, to General Motors Corp. Cooking range. 3,157,176, 11-17-64, Cl. 126-37.
- Pearce, Lewis C., to The Standard Envelope Mfg. Co. Blank forming machine and method of die cutting blanks. 3,129,622, 4-21-64, Cl. 83-36.
- Pearce, Norman H., to The Distillers Co. Ltd. Production of alcohols. 3,157,705, 11-17-64, Cl. 260-631.
- Pearce, Roscoe L.: See—
- Wymore, Charles E., Arnold, Pearce and Berry. 3,151,959.
- Pearce, Thomas J., to Swift & Co. Scrubber for dust and gas. 3,141,910, 7-21-64, Cl. 261-108.
- Pearce, Wesley: See—
- Van Hemel, Raymond W. 3,118,236.
- Pearcy, James C., to Halliburton Co. Methods and apparatus for testing wells. 3,152,639, 10-13-64, Cl. 166-3.
- Pearl, Bertram A., and E. Newman, to Pyrotenax Ltd. Means for applying end seals to electric cables. 3,137,064, 6-16-64, Cl. 29-250.
- Pearl, Curt C., to Equitable Paper Bag Co. Inc. Air sickness bag. 3,149,771, 9-22-64, Cl. 229-55.
- Pearl, Curtis: See—
- Cohen, Paul, Schwartz, and Pearl. 3,132,784.
- Pearl, Curtis F., to The Singer Co. Pattern wheel filling mechanism. 3,138,853, 6-30-64, Cl. 29-208.
- Pearl, John J., to United States Plywood Corp. Scarfed veneer end joining apparatus. 3,131,737, 5-5-64, Cl. 144-281.
- Pearl, John J., to United States Plywood Corp. Veneer end scarfing machine. 3,147,782, 9-8-64, Cl. 144-124.
- Pearlman, Albert. Vehicle with expandable cargo space in top. 3,146,018, 8-25-64, Cl. 296-26.
- Pearlman, Harry, and L. A. Hanson, to United States of America, Atomic Energy Commission. Separation of an actinide metal from an alloy. 3,158,468, 11-24-64, Cl. 75-84.1.
- Pearlman, Martin B. Devices for use in the treatment of exhaust gases of internal combustion engines. 3,142,150, 7-28-64, Cl. 60-30.
- Pearlman, Robert I.: See—
- Rassner, Louis. 3,145,479.
- Pearne, Florentin J.: See—
- Pearne, Frank S. and F. J. 3,159,896.
- Pearne, Frank S.: See—
- Gillette, William M., Jr., McPeck, and Pearne. 3,154,206.
- Pearne, Frank S., to Regent Jack Mfg. Co., Inc. Jack mechanism having an internal locking means. 3,159,973, 12-8-64, Cl. 60-52.
- Pearne, Frank S. and F. J., to Pearne & Lacy Machine Co., Inc. Machine for handling clay pipe. 3,159,896, 12-8-64, Cl. 25-39.
- Pearne & Lacy Machine Co., Inc.: See—
- Pearne, Frank S. and F. J. 3,159,896.
- Pearsall, Cortland S., to Varian Associates. Metalized ceramic for bonding to metals. 3,132,044, 5-5-64, Cl. 117-123.
- Pearsall, Thomas J.: See—
- Wallace, William A., Pearsall, and Mansfield. 3,161,112.
- Pearson, Arthur D.: See—
- Northover, William R., and Pearson. 3,117,013.
- Pearson, Arthur S., to United-Carr Fastener Corp. Fastener devices. 3,119,476, 1-28-64, Cl. 189-88.
- Pearson, Arthur S., to United-Carr Fastener Corp. Fastener clip device. 3,122,386, 2-25-64, Cl. 287-93.
- Pearson, Ben, Inc.: See—
- Farmer, Marion R. 3,156,081.
- Haun, Carl B. 3,133,676.
- Pearson Candy Co.: See—
- Evanson, Clifford E., Jorgensen, Albrecht, Block, and Larsen. 3,156,195.
- Pearson, Carl F., to Manning, Maxwell & Moore, Inc. Crane interlock mechanism. 3,132,598, 5-12-64, Cl. 104-98.
- Pearson, Charles, Jr. Racing game apparatus. 3,129,941, 4-21-64, Cl. 273-86.
- Pearson, Charles, Jr. Skill game comprising a displaceable bowl from which objects are to be withdrawn. 3,158,370, 11-24-64, Cl. 273-1.
- Pearson, Charles W., to General Electric Co. Electric incandescent lamp with a rectifying diode mounted within the lamp base. 3,148,305, 9-8-64, Cl. 315-51.
- Pearson, Clarence E., and H. Hansen. Combination wax bullet loader. 3,146,660, 9-1-64, Cl. 86-23.
- Pearson, David V.: See—
- White, Robert F., and Pearson. 3,134,405.
- Pearson, Donald G., to Sears Roebuck and Co. Rotary lawn mower. 3,145,519, 8-25-64, Cl. 56-25.4.
- Pearson, Edgar, to Asquith Electric (Colne) Ltd. Slub catchers for yarn spinning, doubling and similar machines. 3,153,273, 10-20-64, Cl. 28-64.
- Pearson, Elmer W.: See—
- Jelatis, Demetrius G., Olsen, Haaker, and Pearson. 3,139,990.
- Pearson, Eugene S., B. C. O'Neill, and N. Watkins, to International Business Machines Corp. Stroke length adjusting mechanism. 3,122,028, 2-25-64, Cl. 74-59.
- Pearson, Eugene W.: See—
- Castle, James B., Jr., Pearson, and Richardson. 3,153,384.
- Pearson, Eugene W., to Pacific Industrial Mfg. Co. Control system for hold down means in a shear or like machine. 3,152,503, 10-13-64, Cl. 83-390.
- Pearson, Eugene W., to Pacific Industrial Mfg. Co. Pivotal drive connection. 3,163,105, 12-29-64, Cl. 100-214.
- Pearson, Eugene W., to Pacific Industrial Mfg. Co. Precision adjustable control valve assembly. 3,163,175, 12-29-64, Cl. 137-315.
- Pearson, Eugene W., and R. A. Richardson, to Pacific Industrial Mfg. Co. Control means for series connected cylinder drive assemblies. 3,143,924, 8-11-64, Cl. 91-171.
- Pearson, Eugene W., and A. L. Pedersen, to Pacific Industrial Mfg. Co. Rake angle control means for power shears and like machines. 3,145,602, 8-25-64, Cl. 83-62.

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Pearson, George. Self-feeding water heaters and boilers. 3,139,084, 6-30-64, Cl. 126-366.

Pearson, Harold E. Garden planters. 3,137,095, 6-16-64, Cl. 47-33.

Pearson, Harry C., to Portland Iron Works. Edger picker. 3,139,125, 6-30-64, Cl. 143-157.

Pearson, Leonard, to The Babcock & Wilcox Co. Pulverizing coal firing method and system for blast furnace. 3,150,962, 9-29-64, Cl. 75-42.

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Pearson, Lincoln E., to Crompton & Knowles Corp. Method of depositing fibers from one tow onto another tow incident to forming a nonwoven web. 3,128,507, 4-14-64, Cl. 19-155.

Pearson, Nels E., to Chain Belt Co. Block link with integral bushing. 3,119,276, 1-23-64, Cl. 74-250.

Pearson, Paul A. Transformer. 3,146,417, 8-25-64, Cl. 336-69.

Pearson, Paul E., Jr., to Sperry Rand Corp. Switch apparatus. 3,158,758, 11-24-64, Cl. 307-88.5.

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Pearson, Richard K.: See—

Edwards, Lawrence J., Criscione, and Pearson. 3,156,530.

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Mortenson, Lee N., and Pearson. 3,149,493.

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Pearson, Tillmon H., to Ethyl Corp. Reduction of ferric chloride with an aluminum compound R_2AlY in an inert organic reaction medium. 3,136,621, 6-9-64, Cl. 75-5.

Pearson, Tillmon H., and J. K. Presswood, to Ethyl Corp. Ethylene polymerization with a trialkyl boron-trialkyl aluminum catalyst. 3,160,672, 12-8-64, Cl. 260-683.15.

Pearson, William H., and E. A. Block, to Ethicon, Inc. Surgical suture. 3,130,728, 4-28-64, Cl. 128-335.5.

Peart, Leland L.: See—

Spraul, Joseph R., Peart, and Greer. 3,132,967.

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Pease, James L., Jr., to Pease Woodwork Co., Inc. Metal door with plastic core. 3,153,817, 10-27-64, Cl. 20-35.

Pease, Lionel. Power takeoff unit. 3,128,860, 4-14-64, Cl. 192-4.

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Steinman, Harold G., and Pease. 3,137,905.

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Peaslee, Lawrence R., and S. C. Caldwell, to General Electric Co. System for providing a range of determinate frequencies from a variable speed source. 3,148,324, 9-8-64, Cl. 321-69.

Peasley, Charles F.: See—

Giulie, Joe D., and Peasley. 3,129,803.

Peasley, Howard. Shooting rest. 3,125,929, 3-24-64, Cl. 89-37.

Peat, David W., and L. A. Strommen; said Peat assor. to Western Electric Co., Inc. said Strommen assor. to Bell Telephone Laboratories, Inc. Coin telephone totalizer coin arm mechanism. 3,144,115, 8-11-64, Cl. 194-94.

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Moe, Lowell A., and Warren. 3,157,154.

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Pechack, Raymond E., to Hahn & Clay. Autofrettage method and apparatus. 3,140,535, 7-14-64, Cl. 29-421.

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Pechmann, Wilhelm, to H. Strunck & Co., Maschinenfabrik. Process and apparatus for the application of covers to bottles and like containers. 3,151,426, 10-6-64, Cl. 53-41.

Pechmann, Wilhelm, to H. Strunck & Co. Apparatus to sever, print and apply labels to containers. 3,159,521, 12-1-64, Cl. 156-499.

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Johnson, Carl W., and Pedersen. 3,132,613.

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Pedersen, Mathias, to American Machine and Foundry Co. Button stitching machine. 3,140,679, 7-14-64, Cl. 112-110.

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Kritzer, Richard W. 3,151,671.

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Pelletier, Roger. Non-arcng electrical switch. 3,124,665, 3-10-64, Cl. 200-10.

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- Perkins, F., Ltd.: See—
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- Perkins, Glenn H., to Oxford Paper Co. Coating compositions. 3,125,455, 3-17-64, Cl. 106-154.
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- Perkins, Herbert M., and W. Chakeres, to Thermal Controls, Inc. Thermal time-delay relay. 3,129,306, 4-14-64, Cl. 200-122.
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- Perkins, Richard E., to Electronic Coin Processing Corp. Separator for coins. 3,147,759, 9-8-64, Cl. 133-3.
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- Perley, Richmond, to United Aircraft Corp. Magnetic tape to perforated tape digital information converter. 3,129,409, 4-14-64, Cl. 340-172.5.
- Perlis, David B. Cycling valve. 3,147,770, 9-8-64, Cl. 137-624.13.
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- Perolini, Marcel C., to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). High voltage electrical circuit-breakers. 3,124,669, 3-10-64, Cl. 200-48.
- Perotte, Laurence F., to General Electric Co. Method of providing a high resistance insulation coating for a conductor in a sheath. 3,121,038, 2-11-64, Cl. 156-48.
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- Perotto, Pier G., to Olivetti, Ing. C., & C. S.p.A. Old balance pick-up device for an accounting machine. 3,146,342, 8-25-64, Cl. 235-61.11.
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- Perret, Georges. Laying down of immersed pipes. 3,136,133, 6-9-64, Cl. 61-72.3.
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- Perri, Frank B., and F. C. Du Grenier, to The Seeburg Corp. Vending machine having a plurality of dispensing compartments. 3,146,908, 9-1-64, Cl. 221-124.
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- Perrin, Felix, to Fabrique de Machines Perrin freres S.A. Quick-action chuck for drilling and milling tools. 3,152,811, 10-13-64, Cl. 279-82.
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- Perrin, Jacques J. F. Control system for the steering of an aerodyne and chiefly of a glider. 3,120,935, 2-11-64, Cl. 244-80.
- Perrin, Jean A., to Societe le Carbone-Lorraine. Electrode systems for electric arcs. 3,163,796, 12-29-64, Cl. 314-45.
- Perrin, Joe F. Lemon slice squeezer. 3,133,493, 5-19-64, Cl. 100-211.
- Perrin, Tom S., and D. H. Strong, to Diamond Alkali Co. Process for chromizing ferrous metal objects. 3,152,007, 10-6-64, Cl. 117-107.2.
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- Perrins, Lyle E., to Imperial Chemical Industries Ltd. Gramophone records of vinyl chloride polymers with quaternary pyridinium compounds as anti-static agents. 3,150,120, 9-22-64, Cl. 260-87.1.
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- Perron, Yvon G., and L. B. Crast, Jr., to Bristol-Myers Co. Borohydride reduction of ketopenicillins. 3,127,394, 3-31-64, Cl. 260-239.1.
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- Perry, Edward G., Jr., to Sperry Rand Corp. High speed sheet stacking system. 3,162,438, 12-22-64, Cl. 271-71.
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- Perry, Forbes G. D., to National Research Development Corp. Continuous infinitely variable transmission. 3,153,938, 10-27-64, Cl. 74-200.
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- Perryman, John S., to Curtiss-Wright Corp. Spring clutch and control means. 3,125,869, 3-24-64, Cl. 74-111.
- Perschy, James A. Magnetostrictive stability device. 3,145,369, 8-18-64, Cl. 340-173.
- Persinger, Laverne O., and M. L., to Big Boy Mfg. Co., a division of Seldelhuber Steel Rolling Mills Corp. Barbecue assembly. 3,121,866, 2-18-64, Cl. 99-443.

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Peters, Harlan J., 1/2 to L. W. Bowling. Cementitious slab and means and method for forming same with lines of weakness. 3,132,571, 5-12-64, Cl. 94-22.
Peters, James B. Portable lathe. 3,141,365, 7-21-64, Cl. 82-4.
Peters, John L. Mass spectrometer leak detector including a novel repeller-heater assembly. 3,155,826, 11-3-64, Cl. 250-41.9.
Peters, Kurt. Process for separating zirconium and hafnium values. 3,127,236, 3-31-64, Cl. 23-23.
Peters, Kurt. Metal acid salts of polybasic organic acids. 3,137,717, 6-16-64, Cl. 260-448.
Peters, Lowell E. Side camming balance spring lock. 3,146-501, 9-1-64, Cl. 20-42.
Peters, Lowell E. Balance spring mechanism. 3,157,917, 11-24-64, Cl. 20-42.
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Fay, Rudolph J. 3,119,352.
Peters, Melville F. 50% to J. J. Mascuch. Flexible assemblies for fluid bearing lines. 3,133,754, 5-19-64, Cl. 285-165.
Peters, Melville F. Expansion tank. 3,137,317, 6-16-64, Cl. 138-30.
Peters, Melville F. 50% to J. J. Mascuch. Pressure differential measuring devices. 3,152,477, 10-13-64, Cl. 73-410.
Peters, Melville F. Bellows sealing and securing device. 3,159,182, 12-1-64, Cl. 138-30.
Peters, Melville F. Surge attenuating devices. 3,162,213, 12-22-64, Cl. 138-30.
Peters, Pete J., and P. V. De Luca. Coupling device. 3,124,971, 3-17-64, Cl. 74-579.
Peters, Robert D., and J. F. Uckotter, to The Cincinnati Milling Machine Co. Machine tool loader. 3,127,716, 4-7-64, Cl. 51-215.
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Peters, Timothy V., Jr., to Polythane Corp. Method and apparatus for wet spinning elastomeric polymers into a fused multifilament fiber. 3,161,706, 12-15-64, Cl. 264-103.
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Lanum, William J. 3,137,765.
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Petersen, James M., D. D. Reed, H. D. Kluge, deceased (by H. E. Kluge, administratrix), to Texaco Inc. 5-hydroxy-6-halo-3-oxahexyl hydrocarbonthiophosphonate and manufacture. 3,141,901, 7-21-64, Cl. 260-461.
Petersen, James M., D. D. Reed, and H. D. Kluge (deceased, by H. E. Kluge, administratrix), to Texaco Inc. Dialkyl hydrocarbonthiophosphonoxylhydroxyhexahydrophthalate. 3,162,672, 12-22-64, Cl. 260-461.
Petersen, James M., D. D. Reed, and H. D. Kluge (deceased, by H. E. Kluge, administratrix), to Texaco Inc. Hydrocarbylchalcidohydroxyhexyl hydrocarbonthiophosphonates. 3,162,671, 12-22-64, Cl. 260-461.
Petersen, John E., and O. C. Lawson, to Petersen Industries, Inc. Loading apparatus. 3,119,505, 1-28-64, Cl. 214-658.
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Petersen, Thorvald K., and G. A. Thompson, to Douglas Aircraft Co., Inc. Air film supported weighing jack. 3,119-598, 1-28-64, Cl. 254-93.
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Petersen, Adolphe C. Unit charger for combustion engines. 3,121,991, 2-25-64, Cl. 60-13.
Petersen, Andrew M. Pitless adapter. 3,154,148, 10-27-64, Cl. 166-88.
Petersen, Arnold E. Combination playpen and crib. 3,127-620, 4-7-64, Cl. 5-99.
Petersen, Bertil E., to Cardwell Westinghouse Co. Movable coupler support for draft rigging arrangements. 3,159,382, 12-1-64, Cl. 213-21.
Petersen, C. Lynn, to Peterson Filters & Engineering Co. Filter medium tracking control. 3,120,492, 2-4-64, Cl. 210-401.
Petersen, Carl. Intermittent roller feed. 3,137,428, 6-16-64, Cl. 226-154.
Petersen, Carl A., to Captain Products, Inc. Remote control steering device. 3,131,909, 5-5-64, Cl. 254-175.5.
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Petersen, Charles L., to Uarco Inc. Forms burster. 3,146-927, 9-1-64, Cl. 225-100.
Petersen, Charles W., to Baldwin-Lima-Hamilton Corp. High elongation strain gage. 3,124,769, 3-10-64, Cl. 338-2.
Petersen, Dana. Pin fastening device. 3,142,101, 7-28-64, Cl. 24-158.
Petersen, Dana. Hot dog barbecue fork. 3,148,907, 9-15-64, Cl. 294-61.
Petersen, David G. Engine accessory case. 3,129,700, 4-21-64, Cl. 123-56.
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Peterson, Dean M., to Eastman Kodak Co. Flash lamp synchronizing mechanism. 3,139,805, 7-7-64, Cl. 95-11.5.
Peterson, Dean M., F. A. Mindier, and C. E. Pickering, to Eastman Kodak Co. Film metering mechanism. 3,148-605, 9-15-64, Cl. 95-31.
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Peterson, Edward S., to Automatic Electric Laboratories, Inc. Wireless loudspeaking telephone. 3,124,657, 3-10-64, Cl. 179-81.
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Peterson, Edwin F. Vibrator. 3,134,272, 5-26-64, Cl. 74-606.
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Peterson, Franz, 25% to H. Tomasello. Rotary internal combustion engine. 3,118,432, 1-21-64, Cl. 123-16.
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Peterson, Merle H., and S. L. Lawrence, to Massey-Ferguson, Inc. Apparatus for wafering hay. 3,158,975, 12-1-64, Cl. 56-1.
Peterson, Miles L., to Hamilton Watch Co. Electromagnet for winding automobile clocks. 3,117,255, 1-7-64, Cl. 317-165.
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Peterson, Norman E., and E. E. Courchene, Jr., to Digitech, Inc. Decoding system. 3,146,438, 8-25-64, Cl. 340-347.
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- Peterson, Reuben G. Building mover with pivotal axle. 3,139,288, 6-30-64, Cl. 280-34.
- Peterson, Richard H. Electronic organ. Re. 25,515, 1-21-64, Cl. 84-126.
- Peterson, Richard H. Electronic organ with automatic means for playing chords and facilitating the learning thereof. 3,118,961, 1-21-64, Cl. 84-117.
- Peterson, Richard H. Electronic organ obtaining reverberation effects utilizing a light sensitive resistor. 3,119,890, 1-28-64, Cl. 84-125.
- Peterson, Richard H. Electronic musical instrument including cascaded transistor oscillators. 3,143,712, 8-4-64, Cl. 351-52.
- Peterson, Robert E. Vibration and mechanical wave damping. 3,130,700, 4-28-64, Cl. 114-20.
- Peterson, Robert G., G. J. Panek, and F. E. Schulte, to International Telephone and Telegraph Corp. Auxiliary locking device for quick disconnect umbilical connector. 3,156,512, 11-10-64, Cl. 339-45.
- Peterson, Robert G., G. J. Panek, and F. E. Schulte, to International Telephone and Telegraph Corp. Peripheral tang lock for quick disconnect umbilical connector. 3,156,513, 11-10-64, Cl. 339-45.
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- Peterson, Robert M., J. E. Mahlmeister, N. E. Vaughn, W. J. Sanders, and A. C. Williams, to United States of America, Atomic Energy Commission. Calandria type sodium graphite reactor. 3,121,052, 2-11-64, Cl. 176-52.
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- Peterson, Rudolph A., to United States of America, Navy. Screw viscosity pump. 3,135,216, 6-2-64, Cl. 103-89.
- Peterson, Russell E., and S. L. Stewart, to United States of America, Atomic Energy Commission. Large fast nuclear reactor. 3,140,237, 7-7-64, Cl. 176-18.
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- Peterson, Seymour, to Storm Industries, Inc. Tray means for egg conveyors. 3,155,224, 11-3-64, Cl. 198-131.
- Peterson, Seymour, to Storm Industries, Inc. Egg collection device. 3,157,271, 11-17-64, Cl. 198-131.
- Peterson, Seymour, and J. W. Granath, to Storm Industries, Inc. Automated poultry ejecting egg nest. 3,157,156, 11-17-64, Cl. 119-45.
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- Peterson, Taft M. Rotary internal combustion engine. 3,121,421, 2-18-64, Cl. 123-16.
- Peterson, Thomas F., to Preformed Line Products Co. Rotary drying machine. 3,137,547, 6-16-64, Cl. 34-184.
- Peterson, Thomas F., to Preformed Line Products Co. Method and means for utilizing helical armor rods. 3,163,706, 12-29-64, Cl. 174-42.
- Peterson, Thomas G. Collapsible portable granary or like container. 3,143,271, 8-4-64, Cl. 229-45.
- Peterson, Vincent C. J., and W. J. Gilmore, to American Chain & Cable Co. Inc. Splices. 3,120,734, 2-11-64, Cl. 57-142.
- Peterson, Vincent C. J., O. J. Bratz, and C. H. Layton, to American Chain & Cable Co. Inc. Method of manufacturing wire rope. 3,130,536, 4-28-64, Cl. 57-161.
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- Peterson, Willard D., and B. L. Weigand, to American Potash & Chemical Corp. Diphenyl ether derivatives. 3,122,575, 2-25-64, Cl. 260-404.
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- Peterson, William M.: See—
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- Peterson, William R., and D. A. Walker, to Ashland Oil & Refining Co. Butadiene-styrene-acrylate latex terpolymer. 3,142,654, 7-28-64, Cl. 260-29.7.
- Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Freeze resistant latex. 3,151,091, 9-29-64, Cl. 260-27.
- Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Freeze resistant latex prepared from a Grindella extract. 3,151,092, 9-29-64, Cl. 260-27.
- Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Grindella extract for synthetic rubber. 3,151,094, 9-29-64, Cl. 260-27.
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- Petit, A., & Cie, S.A.R.L.: See—
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- Petit, Albert A. P., to A. Petit & Cie, S.A.R.L. Rotary pump. 3,162,140, 12-22-64, Cl. 103-131.
- Petit, Francis W., and E. P. L. Schultz, to The Bristol Co. Telemetering system. 3,147,463, 9-1-64, Cl. 340-206.
- Petit, Albert C., to Foster Grant Co., Inc. Pour spout. 3,154,226, 10-27-64, Cl. 222-528.
- Petit, Albert C., to Foster Grant Co., Inc. Tape dispenser. 3,158,303, 11-24-64, Cl. 225-66.
- Petkovich, Frank, and P. E. Carroll, to Falconbridge Nickel Mines Ltd. Agglomeration of ores. 3,158,463, 11-24-64, Cl. 75-5.
- Petkowitz, Paul E., to General Motors Corp. Refrigerator with door mounted hydrator. 3,133,427, 5-19-64, Cl. 62-227.
- Petlak, Joseph J., and R. Reichhelm. Adjustable nozzle for jet snow melters. 3,136,488, 6-9-64, Cl. 239-502.
- Petlak, Joseph J., and R. Reichhelm. Snow and ice melter. 3,140,708, 7-14-64, Cl. 126-343.5.
- Petola, Salvatore R. Pendant support. 3,146,974, 9-1-64, Cl. 244-110.
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- Petree, Edwin H., F. E. Robbins, and R. L. Self, to Western Electric Co., Inc. Apparatus for forming leads attached to components. 3,141,492, 7-21-64, Cl. 153-2.
- Petree, Troy. Bootless grain elevator. 3,161,279, 12-15-64, Cl. 198-55.
- Petrella, Joseph L., and J. S. Strance, to E. W. Bliss Co. Vehicle ground guidance system. 3,132,710, 5-12-64, Cl. 180-79.1.
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- Petrella, Sebastiano J., and Salvatore J. Paring tool for fleshy vegetables. 3,156,276, 11-10-64, Cl. 146-43.
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- Petri, Jan E., to The Horne-Lite Corp. Methods for making acrylic sheets. 3,131,242, 4-28-64, Cl. 264-331.
- Petric, Allen B. Boat propulsion and steering apparatus. 3,159,132, 12-1-64, Cl. 114-162.
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- Petric, John M. Sliding necktie rack. 3,124,253, 3-10-64, Cl. 211-94.
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- Petrides, Thracy, W. P. Stapelfeld, and O. Stronkoff, to U.S. Industries, Inc. Tethered hovering platform. 3,149,803, 9-22-64, Cl. 244-17.13.
- Petrides, Thracy, and L. S. Tuckerman, Jr., to U.S. Industries, Inc. Photo radar ground contour mapping system. 3,153,784, 10-20-64, Cl. 343-5.
- Petrie, Adolore F., to General Electric Co. Loudspeaker cone suspension. 3,130,811, 4-28-64, Cl. 181-32.
- Petrie, Adolore F., to General Electric Co. Loudspeaker cone suspension. 3,154,173, 10-27-64, Cl. 181-32.
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- Petrie, James A., to Rolls-Royce Ltd. Vtol aircraft engine. 3,127,129, 3-31-64, Cl. 244-23.
- Petrie, James A., to Rolls-Royce Ltd. Thrust bearing for fluid flow machines. 3,163,353, 12-29-64, Cl. 230-116.
- Petrie, James A., and T. Steel, to Rolls-Royce Ltd. Gas turbine engines. 3,141,299, 7-21-64, Cl. 60-35.6.
- Petrie, Oscar W. Sign frame. 3,132,431, 5-12-64, Cl. 40-125.
- Petrin, Frank. Pipe coupling having centering means. 3,151,889, 10-6-64, Cl. 285-39.
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Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,147,000, 9-1-64, Cl. 268-33.
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- Preston, Richard J., to United Aircraft Corp. Electronic seam follower. 3,141,952, 7-21-64, Cl. 219-125.
- Preston, Troy C., J. J. Wetzler, and S. Tyburski, to F. W. Means & Co. Towel dispensing apparatus. 3,140,904, 7-14-64, Cl. 312-38.
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- Priaroggia, Paolo G., and G. Piatti, to Pirelli Societa per Azioni. Extrusion of metal sheaths for electric cables. 3,134,149, 5-26-64, Cl. 22-57.2.
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- Pribus, Clarence W., to Eastman Kodak Co. Aperture and exposure control mechanism for photographic camera. 3,125,012, 3-17-64, Cl. 95-10.
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- Price, Clifford W., to Phillips Petroleum Co. Sweetening of sour hydrocarbons. 3,152,068, 10-6-64, Cl. 208-204.
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- Price, David B., to Westinghouse Electric Corp. Coffee maker with a combination cover. 3,136,241, 6-9-64, Cl. 99-302.
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- Price, Earl R., and R. H. Long, to The Bendix Corp. Automatic braking system. 3,129,036, 4-14-64, Cl. 303-31.
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- Price, Frederick. Purging choke. 3,119,449, 1-28-64, Cl. 166-91.
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- Price, George C., to Oliver Electrical Mfg. Co. Guy wire protector. 3,142,365, 7-28-64, Cl. 189-32.
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- Price, Herbert P., to Devco & Reynolds Co., Inc. Preparation of partial glycidyl ethers of polyols. 3,117,138, 1-7-64, Cl. 260-348.6.
- Price, James R., and R. G. Cunningham, to Shell Oil Co. Alkali metal-amine salt of haloalkylphosphonic acid. 3,160,657, 12-8-64, Cl. 260-501.
- Price, John A., to FMC Corp. Three component catalyst for polymerizing olefin containing a mixture of alkyl aluminum dihalide, titanium trichloride and an alkali metal amide. 3,135,724, 6-2-64, Cl. 260-93.7.

- Price, John A., to Esso Research and Engineering Co. Colloidal molybdenum complexes prepared by ketone extraction. 3,140,997, 7-14-64, Cl. 252-33.
- Price, John A., and H. T. Smallwood, to AirSun Corp. Three-component catalyst for 1-olefin polymerization containing aluminum alkyl halide, titanium trichloride and an orthoester. 3,149,098, 9-15-64, Cl. 260-93.7.
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- Price, Joseph C. Lip shield. 3,126,550, 3-31-64, Cl. 2-174.
- Price, Michael S. T., to United Kingdom Atomic Energy Authority. Production of carbon masses. 3,126,430, 3-24-64, Cl. 264-29.
- Price, Nathan C. Wingless supersonic aircraft. 3,148,848, 9-15-64, Cl. 244-23.
- Price, Nathaniel W. Flush tank attachment for lever operation of atomizer deodorant cans. 3,143,745, 8-11-64, Cl. 4-222.
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- Price, Ralph E., to Landis Tool Co. Spindle bearings. 3,121,596, 2-18-64, Cl. 308-71.
- Price, Ralph E., to Landis Tool Co. Preloaded supporting means for grinding machine tool holders. 3,122,133, 2-25-64, Cl. 125-11.
- Price, Ralph E., to Landis Tool Co. Apparatus for grinding intersecting annular and cylindrical surfaces. 3,145,508, 8-25-64, Cl. 51-105.
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- Price, Ralph E., and H. E. Balsiger, to Landis Tool Co. Profile dressing device for grinding wheels. 3,121,423, 2-18-64, Cl. 125-11.
- Price, Ralph E., and W. E. Happel, to Landis Tool Co. Work transfer apparatus for machine tools. 3,124,257, 3-10-64, Cl. 214-1.
- Price, Ralph E., and W. E. Happel, to Landis Tool Co. Axial locating means for workpieces. 3,145,507, 8-25-64, Cl. 51-105.
- Price, Raymond, and C. E. Vellins, to Imperial Chemical Industries Ltd. Water-soluble triazine dyestuffs having a thio-cyanato substituent on the triazine ring, and an azo, anthraquinone, or phthalocyanine chromophoric group. 3,122,530, 2-25-64, Cl. 260-146.
- Price, Raymond, and C. E. Vellins, to Imperial Chemical Industries Ltd. New azo dyestuffs. 3,127,232, 3-31-64, Cl. 8-54.
- Price, Richard C., to United States of America, Navy. Pulse compression residue blanking. 3,150,368, 9-22-64, Cl. 343-17.2.
- Price, Richard H., to Saunders Valve Co. Ltd. Diaphragm valves. 3,123,336, 3-3-64, Cl. 251-331.
- Price, Richard H., to Saunders Valve Co. Ltd. Diaphragm valve. 3,157,383, 11-17-64, Cl. 251-331.
- Price, Richard H., and C. R. Jarrett, to Saunders Valve Co. Ltd. Pumps. 3,120,817, 2-11-64, Cl. 103-228.
- Price, Robert W.: See—
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- Price, Stanley D., to Mine Safety Appliances Co. Colorimetric moisture indicator. 3,121,615, 2-18-64, Cl. 23-254.
- Price, Stanley J., Jr., and G. Raynovich, Jr. Barriercade means to be struck by a golf club when an improper golf swing is executed. 3,125,343, 3-17-64, Cl. 273-186.
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- Price, Warren H., to Jacobsen Mfg. Co. Handle for rotary lawn mowers. 3,116,937, 1-7-64, Cl. 280-47.37.
- Price, Warren H., and V. R. Kaufman, to Jacobsen Mfg. Co. Rotary mower engine muffler. 3,138,910, 6-30-64, Cl. 56-25.4.
- Price, Warren R., and A. S. Houston, to St. Regis Paper Co. Cup. 3,128,029, 4-7-64, Cl. 229-15.
- Price, William G., and G. E. Frederick, to ACF Industries, Inc. Kinetic energy absorbing device. 3,117,676, 1-14-64, Cl. 213-43.
- Price, William R.: See—
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- Price, William R., to Flexitallic Gasket Co. Spiral wound gasket. 3,117,795, 1-14-64, Cl. 277-198.
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- Priddle, Albert T. C., to C.A.V. Ltd. Detachable propulsion mechanisms for boats. 3,124,097, 3-10-64, Cl. 115-17.
- Pridgeon, Clifford W., to Daffin Co. Hay bale accumulator. 3,163,302, 12-29-64, Cl. 214-6.
- Pridgeon, Clifford W., M. L. Gustafson, T. Lund, and W. L. Huttner, to Daffin Corp. Hay bale accumulator. 3,157,295, 11-17-64, Cl. 214-6.
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- Priesmeyer, Charles H., to The Powers Regulator Co. Valve. 3,136,336, 6-9-64, Cl. 137-625.18.
- Priest, Edward D., to Parker Mfg. Co. Stapling gun. 3,158,870, 12-1-64, Cl. 1-260.
- Priest, Maurice H.: See—
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- Priest, Wayne A.: See—
- Compton, Arthur M., and Priest. 3,147,925.
- Priest, William J., and J. A. Van Allan, to Eastman Kodak Co. Vesicular image-forming coatings comprising a light-sensitive carbazido. 3,143,418, 8-1-64, Cl. 86-49.
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- Prieve, Hans, and A. Poljak, to Schering AG. Alpha-hydro-carbon-beta polyiods amino-methylene-amino-phenyl propionic acids and esters thereof. 3,119,859, 1-28-64, Cl. 260-471.
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- Prill, William K.: See—
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- Primich, Frank, and R. J. Neldigh, to Products Research and Development Corp. Lighter for bottled-gas torches. 3,154,936, 11-3-64, Cl. 67-20.1.
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- Prince, David C., Jr., to General Electric Co. Variable area nozzle. 3,138,921, 6-30-64, Cl. 60-35.6.
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- Quateman, Joseph I.: *See*—
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- Quayle, George F., to Yale & Towne, Inc. Scissor lever with a pivotal link for shifting and tilting the mast on an industrial lift truck. 3,151,755, 10-6-64, Cl. 214-670.
- Quayle, Jackson C. Preformed line tie. 3,127,140, 3-31-64, Cl. 248-63.
- Queen, Jack B.: *See*—
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- Queever, Lawrence, to Controls Co. of America. Direct ignition system. 3,144,898, 8-18-64, Cl. 158-125.
- Quenneville, Raymond N., to United Aircraft Corp. Cooling system for rotating members. 3,151,669, 10-6-64, Cl. 165-86.
- Quenneville, Raymond N., and A. A. Peracchio, to United Aircraft Corp. Canted vortex venturi. 3,139,264, 6-30-64, Cl. 253-65.
- Quenot & Cie, Etablissements: *See*—
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- Quenot, Michel, to Etablissements Quenot & Cie. Instrument for tracing circles. 3,120,059, 2-4-64, Cl. 33-27.
- Quenot, Michel, to Quenot & Cie, Etablissements. Measuring tape. 3,131,480, 5-5-64, Cl. 33-137.
- Quenzler, Henry H. W., to The Boeing Co. Stall pattern lift regulator for airplanes. 3,142,457, 7-28-64, Cl. 244-42.
- Quercla, Marcel, to Flammar Marcel Quercla. Casing having a nozzle and a tank adapted to contain a fluid under pressure. 3,134,504, 5-26-64, Cl. 222-3.
- Quesenberry, Milford S., Jr. Guide rule. 3,135,464, 6-2-64, Cl. 235-70.
- Quesnel, Georges: *See*—
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- Quesnel, Georges, J. G. C. Girard, A. Thiot, H. Coates, and D. A. Brown, to La Bakelite, and Omnium de Produits Chimiques pour l'Industrie et l'Agriculture "OPCIA." Process for making mono(aminoalkyl) phosphite esters. 3,121,731, 2-18-64, Cl. 260-461.
- Questrom America, Inc.: *See*—
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- Quetsch, John G.: *See*—
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- Quilby, Claude A.: *See*—
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- Quick, Adam J., and C. A. Porter, to The Black and Decker Mfg. Co. Boring apparatus and split-casing workpiece therefor. 3,127,795, 4-7-64, Cl. 77-3.
- Quick, Desmond F. J.: *See*—
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- Quick, Kenneth A., J. W. Anderson, and W. R. Carter, to Tranuco Proprietary Ltd. Power transmission and brake mechanisms. 3,116,817, 1-7-64, Cl. 192-4.
- Quick, Lester K.: *See*—
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- Quick, Lester K. Heat reclaiming system. 3,151,469, 10-6-64, Cl. 62-159.
- Quick, Lester K. Hot gas defrosting system. 3,151,470, 10-6-64, Cl. 62-278.
- Quick Service Textiles, Inc.: *See*—
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- Quick-Set, Inc.: *See*—
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- Quick, William H., to North American Aviation, Inc. Frangible and resilient mounting system. 3,131,903, 5-5-64, Cl. 248-358.
- Quickstad, LaRon O., to Minneapolis-Moline, Inc. Two-way plow. 3,123,151, 3-3-64, Cl. 172-227.
- Quigg, Doyle C. Wheeled boat trailer. 3,138,808, 6-30-64, Cl. 9-1.

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Quigley, James B. Carton-slitting mechanism. 3,137,068, 6-16-64, Cl. 30—2.
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Quillet, James E., J. P. Hawk, and E. B. Towne, to Eastman Kodak Co. Polymerization of ethylenically unsaturated compounds with unsaturated, alpha-substituted diacyl peroxide catalysts. 3,119,802, 1-28-64, Cl. 260—94.9.
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Quinlan, Frank B., and R. G. Wheeler, to United States of America, Atomic Energy Commission. Cladding of nuclear fuel elements. 3,136,051, 6-9-64, Cl. 29—471.5.
Quinlan, John E. Plumber's suction plunger. 3,130,421, 4-28-64, Cl. 4—255.
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Quinn, Bert A., to Ideal Brass Works, Inc. Door closer brake. 3,158,894, 12-1-64, Cl. 16—66.
Quinn, Bert A., to Ideal Brass Works, Inc. Door closer. 3,160,910, 12-15-64, Cl. 16—51.
Quinn, Daniel J., III, to International Business Machines Corp. Method of making couplings to super-conductor circuits. 3,144,704, 8-18-64, Cl. 29—155.5.
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Quinn, Halsey P., to Tung-Sol Electric Inc. Ignition system for internal combustion engines. 3,150,286, 9-22-64, Cl. 315—209.
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Quiram, Ernest R., to Esso Research and Engineering Co. Determination of sulfur in a gas stream by means of a radioactive source and detector. 3,122,632, 2-25-64, Cl. 250—43.5.
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Quirk, John F., and F. H. Loftus, to United States of America, Atomic Energy Commission. Ceramic product comprising sintered beryllia and bentonite and method. 3,137,657, 6-16-64, Cl. 252—478.
Quirnbach, Charles F., Jr., to Genisco, Inc. Accelerometer. 3,153,346, 10-20-64, Cl. 73—497.
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Raab, Owen E., and C. E. Kirk. Saw measuring guide. 3,162,220, 12-22-64, Cl. 143—174.
Raabe, Herbert P., to United States of America, Air Force. Radar area display with resolution of individual pulses. 3,122,738, 2-25-64, Cl. 343—7.7.
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Rabinovitch, Benjamin, and C. A. Renton, to Radio Corp. of America. Full binary adder including negative resistance diode. 3,125,674, 3-17-64, Cl. 235—172.
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- Rapata, George M., to Illinois Tool Works, Inc. Fastener unit. 3,153,075, 10-27-64, Cl. 85—50.
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- Rasmann, Egons, and G. J. Selvin, to Sylvania Electric Products Inc. Variable voltage generator. 3,139,600, 6-30-64, Cl. 338—32.
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- Rasmussen, Knud A., to Danfoss ved Ing. M. Clausen. Diaphragm valve. 3,155,366, 11-3-64, Cl. 251—45.
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- Rasmussen, Walter H., and R. V. Johnson, to Waldorf Paper Products Co. Easy opening container. 3,141,598, 7-21-64, Cl. 229—51.
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- Rasor, Ned S., to North American Aviation, Inc. Thermionic diode converter system. 3,146,888, 8-25-64, Cl. 318—138.
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- Rassushin, Jerry V. Method for removing sediment from rocker arm shafts in gasoline engines and a device for facilitating the same. 3,140,699, 7-14-64, Cl. 123—90.
- Rastorgueff, Andrew W., and L. J. Kresan, to Pitney-Bowes, Inc. Envelope flap conditioning apparatus. 3,162,435, 12-22-64, Cl. 271—2.
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 Rice, Harold W., to Robertshaw Controls Co. Vacuum servo system and the like. 3,142,966, 8-4-64, Cl. 60-60.
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 Rice, Henry T. M., to Ohlsson & Rice, Inc. Engine starter reel and method of making the same. 3,134,376, 5-26-64, Cl. 123-185.
 Rice, Henry T. M., to Ohlsson & Rice, Inc. Crackshaft apparatus. 3,147,638, 9-8-64, Cl. 74-595.
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 Rice, Leonard M., and J. B. Clements, to Celanese Corp. of America. Polymers with spiro structure. 3,161,619, 12-15-64, Cl. 260-78.
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- Rice, Stanley L.: Teaching aids. 3,153,861, 10-27-64, Cl. 35-9.
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- Rich, Charles E., to Sperry Rand Corp.: High-mu negative control grid velocity modulation tube. 3,160,782, 12-8-64, Cl. 315-537.
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- Rich, Joseph F., to Solid State Products, Inc.: Manufacture of semiconductor devices. 3,125,803, 3-24-64, Cl. 29-482.
- Rich Mfg. Co. of California: See—
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- Ewing, Paul E. 3,143,774.
- Rich, Philip J., to J. L. Clark Mfg. Co.: Stand-up tape spool. 3,135,380, 6-2-64, Cl. 206-52.
- Rich, Stanley R., to A. H. Rosen, Full range electroacoustic transducers. 3,141,071, 7-14-64, Cl. 179-115.5.
- Rich, Stanley R., to Acoustica Associates, Inc.: A.C. operated transistor oscillator or amplifier circuits. 3,141,140, 7-14-64, Cl. 331-71.
- Rich, Theodore A., to General Electric Co.: Method and apparatus for manufacturing an aerosol. 3,124,442, 3-10-64, Cl. 62-10.
- Rich, Theodore A., to General Electric Co.: Particle size measurement. 3,138,029, 6-23-64, Cl. 73-432.
- Rich, Theodore A., to General Electric Co.: Low cost ionizer. 3,138,740, 6-23-64, Cl. 317-4.
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- Richard, André M., and J. Brodin, to Société d'Electronique et d'Automatisme: Saturable magnetic core circuits. 3,144,639, 8-11-64, Cl. 340-174.
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- Richard, Charles A., Jr., to International Telephone and Telegraph Corp.: Traveling wave mixer tube with helix producing its own oscillation frequency. 3,121,818, 2-18-64, Cl. 315-36.
- Richard, Joseph D.: Ultrasonic particle size measurement apparatus. 3,133,445, 5-19-64, Cl. 73-432.
- Richard, Joseph D.: Secure locking system. 3,134,254, 5-26-64, Cl. 70-277.
- Richard, Joseph D., to Volex Electronics, a Division of Halliburton Co.: Underwater thermometric apparatus. 3,135,943, 6-2-64, Cl. 340-5.
- Richard, Joseph D.: Vehicle starting system. 3,136,307, 6-9-64, Cl. 123-179.
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- Gluesenkamp, Earl W., Richard, and Wilshire. 3,149,080.
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- Richards, Arthur J., and H. C. Vervyser, to Educational Models Inc.: Apparatus and method for producing rodent traps. 3,118,216, 1-21-64, Cl. 29-33.
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- Richards, Fred F., to Ling-Temco-Vought, Inc.: Electrical connector. 3,149,264, 9-15-64, Cl. 317-99.
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- Richards Industries, Inc.: See—
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- Richards, Raymond S., to Owens-Illinois Glass Co.: Method of effecting exothermic reactions. 3,130,045, 4-21-64, Cl. 75-170.
- Richards, Raymond S., to Owens-Illinois Glass Co.: Metal coated refractories and method of utilizing and manufacturing same. 3,136,658, 6-9-64, Cl. 117-227.
- Richards, Richard K.: Decimal counter circuits. 3,154,764, 10-27-64, Cl. 340-174.
- Richards, Richard K.: Flip-flop interconnection circuits. 3,156,829, 11-10-64, Cl. 307-88.5.
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- Richards, William H.: Mop and adjustable handle assembly for mops and the like. 3,137,878, 6-23-64, Cl. 15-118.
- Richards, William H.: Cleaning mops and applicators. 3,147,502, 9-8-64, Cl. 15-118.
- Richards, William H., to Genesco, Inc.: Flexible sole shoe. 3,152,407, 10-13-64, Cl. 36-19.
- Richards, Alan H., and J. H. Carroll, to Union Carbide Corp.: Automatic weighing and flow control apparatus for solid materials. 3,126,068, 3-24-64, Cl. 177-108.
- Richards, Arthur W., to Karma (New Malden) Ltd.: Liquid fuel burners. 3,119,438, 1-28-64, Cl. 158-88.
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- Richardson, Davis A., and W. G. Wilkins, to The Boeing Co.: Moisture and particle removing means for engines. 3,148,043, 9-8-64, Cl. 55-306.
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- Richardson, Donald E., to IIT Research Institute: Method and apparatus for electrostatic recording and reproducing. 3,159,718, 12-1-64, Cl. 179-100.1.
- Richardson, Earl L., and G. C. Hoss, to American Home Products Corp.: Waveset composition comprising an aqueous lotion of polyvinyl alcohol and a carboxy vinyl polymer. 3,133,865, 5-19-64, Cl. 167-87.1.
- Richardson, Eugene E., to Standard Oil Co.: Petroleum wax ethylene alkene coating composition. 3,157,610, 11-17-64, Cl. 260-28.5.
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- Richardson, Joseph G., to Jersey Production Research Co.: Method of improving injectivity of water-solvent mixtures. 3,138,204, 6-23-64, Cl. 166-42.
- Richardson, Lee S., A. I. Lewis, deceased (B. J. Ambrose, administrator), and L. L. France, to Westinghouse Electric Corp.: Tungsten-rhenium-tantalum alloys. 3,160,501, 12-8-64, Cl. 75-176.
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- Richardson, Peter E., and J. R. Dunworth, to Muirhead & Co. Ltd.: Automatic indexing arrangements for rotary stud switches. 3,132,266, 5-5-64, Cl. 307-141.4.
- Richardson, Philip: See—
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- Richardson, Philip, H. H. Ritz, and M. O. Engel, to C. A. Parsons & Co. Ltd.: Cooling of rotor conductors of dynamo-electric machines. 3,154,706, 10-27-64, Cl. 310-54.
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- Richardson, Ronald E., to Pittsburgh Plate Glass Co.: Glass bending. 3,116,993, 1-7-64, Cl. 65-107.
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- Richardson, Ronald E.: Glass bending mould with sag indicating mechanism. 3,153,582, 10-26-64, Cl. 65-158.
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- Richardson, Westgarth & Co. Ltd.: See—
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- Richert, Eberhard, and D. Eulers, to International Standard Electric Corp.: Arrangement for edgewise conveying systems to separate and equally distribute irregularly supplied articles on two conveying paths. 3,140,780, 7-14-64, Cl. 209-74.
- Richert, Hans, to Farbenfabriken Bayer Aktiengesellschaft: Process for the production of trifluoromethylmercaptophenols. 3,132,182, 5-5-64, Cl. 260-609.
- Richert, Hans, G. Schrader, and H. Jonas, to Farbenfabriken Bayer Aktiengesellschaft: O-trifluoromethylmercaptophenyl esters of pentavalent phosphorus acids. 3,162,672, 12-22-64, Cl. 260-461.
- Richert, Walter J., to American Machine & Foundry Co.: Electromagnetic relays. 3,121,149, 2-11-64, Cl. 260-93.
- Richert, Walter J., to American Machine & Foundry Co.: Multiple coil electromagnetic relays. 3,125,652, 3-17-64, Cl. 260-102.
- Richert, Walter J., and H. O. Wells, to American Machine & Foundry Co.: Electrical switching devices with movable contact engageable with V-shaped contact. 3,152,237, 10-6-64, Cl. 200-166.
- Riches, Denis G., and R. B. Jorgensen, to Nicholson Mfg. Co.: Oscillating nozzle assemblies for hydraulic log barkers. 3,158,325, 11-24-64, Cl. 239-187.
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- Richgels, Harry J., to Lakeside Machine Shop, Inc.: Slurry agitator valve. 3,125,119, 3-17-64, Cl. 137-538.
- Richie, Carlton A., and A. J. Scalora, to Owens-Illinois Glass Co.: Method and apparatus for producing thermoplastic tubing and sheeting. 3,142,865, 8-4-64, Cl. 18-14.
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- Richison, Eugene M., and Ethel M., 25% to T. H. Conklin: Stairclimbing wheelchair. 3,133,742, 5-19-64, Cl. 280-528.
- Richler, Max, to Atlas Hoist & Body Inc.: Tractor with elevatable fifth-wheel. 3,139,289, 6-30-64, Cl. 280-425.
- Richley, Edward A., E. E. Dangle, and J. D. Wear, to United States of America, National Aeronautics and Space Administration: Rocket engine. 3,119,232, 1-28-64, Cl. 60-35.5.
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- Richman, Donald, to Hazeltine Research, Inc.: Compatible color-television apparatus. 3,139,484, 6-30-64, Cl. 178-54.
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- Rivers, Hubert M., to Calgon Corp. Boiler system. 3,139,071, 6-30-64, Cl. 122-382.
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- Robeson, Charles D., and D. R. Nelan. Chemistry of 6-chromanols. 3,153,053, 10-13-64, Cl. 260-345.5.
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- Robinson, Cecil H., to Schering Corp. Fluorinated androstenes and intermediates relating thereto. 3,126,376, 3-24-64, Cl. 260-239.55.
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- Robinson, David E., to Paper Machine Components, Inc. Paper making machine and process. 3,149,028, 9-15-64, Cl. 162-303.
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- Robinson, Lester E., G. K. Bradfield, Jr., and J. A. Johnson, to ACF Industries, Inc., and to The Rail Trailer Co. Collapsible trailer support and anchor. 3,145,006, 8-18-64, Cl. 248-119.
- Robinson, Lester L., and B. E. Erickson, to General Motors Corp. Automatic control for afterburner manifold utilizing two fluids. 3,158,998, 12-1-64, Cl. 60-35.6.
- Robinson, Lloyd A. Pipe support. 3,152,784, 10-13-64, Cl. 248-74.
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- Robinson, Mayes R. Two-directional agricultural heater. 3,120,949, 2-11-64, Cl. 263-19.
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- Robinson, Ralph C., A. E. Patrick, and D. Morrison, to General Time Corp. Electric alarm device for sensing signal over power distribution system. 3,136,985, 8-9-64, Cl. 340-310.
- Robinson, Ralph L. Multiple hull water vehicle. 3,139,068, 6-30-64, Cl. 114-61.
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- Robison, Michael M., and R. A. Lucas, to Ciba Corp. Alkyl 18-desoxy-18-amino deserpidates and related compounds. 3,120,533, 2-4-64, Cl. 260-287.
- Robison, Michael M., and R. A. Lucas, to Ciba Corp. Lower alkyl-18-O-alkylphthalate deserpidates and intermediates therefor. 3,120,386, 3-24-64, Cl. 260-286.
- Robison, Michael M., and R. A. Lucas, to Ciba Corp. 18-O-aryl-sulfonyl-deserpidates and analogs thereof. 3,126,387, 3-24-64, Cl. 260-287.
- Robison, Michael M., and R. A. Lucas, to Ciba Corp. 18-O-alkyl-deserpidates and related compounds. 3,126,388, 3-24-64, Cl. 260-287.
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- Robra, Helmut, to Schloemann Aktiengesellschaft. Hydraulic forging presses. 3,138,976, 6-30-64, Cl. 78-13.
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- Rohr, Helmut, and K. H. Deneke, to Schloemann Aktiengesellschaft. Progressive forging of multi-throw crank-shafts. 3,129,488, 4-21-64, Cl. 29-6.
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- Robson, Anthony D., to The British Oxygen Ltd. Method and means for priming a liquid pump. 3,140,665, 7-14-64, Cl. 103-87.
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- Rockwell, Charles N., to Fibre Drum Co. Positive latching means for container clamping rings. 3,156,494, 11-10-64, Cl. 292-256.69.
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- Roesch, Franklyn W., and R. M. Bluck, to Thompson Ramo Wooldridge Inc. Sectionalized motor case construction. 3,123,243, 3-3-64, Cl. 220-3.
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- Rogier, James W., to United States of America. Navy. Impact test apparatus. 3,130,575, 4-28-64, Cl. 73-12.
- Rogier, Jesse L. Sectional impression roller for rotary duplicating machines. 3,138,093, 6-23-64, Cl. 101-91.
- Rogier, Jesse P. Hand tool for rotating a threaded bearing axially movable clutching handle sections. 3,127,797, 4-7-64, Cl. 81-58.3.
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- Rogier, John H. Earth conditioning implement. 3,130,796, 4-23-64, Cl. 172-117.
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- Rogier, John L., to Space Technology Laboratories, Inc. Superconductive transformer. 3,143,720, 8-4-64, Cl. 336-155.
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- Rogier, Edgar R., to General Mills, Inc. Hydroxy polyamines. 3,123,604, 3-3-64, Cl. 260-247.5.
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- Roosa, Vernon D. Fuel injection system. 3,119,437, 1-28-64, Cl. 158-36.3.
- Roosman, William B. Hot line clamp. 3,142,525, 7-28-64, Cl. 339-109.
- Roosslen, Elmer J., to Keeler Brass Co. Pull handle and method of producing the same. 3,135,010, 6-2-64, Cl. 16-112.
- Root, Bernard H., and J. Shirman, to General Dynamics Corp. Dynamic store with serial input and parallel output. 3,151,314, 9-29-64, Cl. 340-173.
- Root, Charles W., to The Bendix Corp. Electrical apparatus. 3,145,700, 8-25-64, Cl. 123-179.
- Root, Elhu, III. Gas analyzer. 3,120,750, 2-11-64, Cl. 73-24.
- Root, Frank E., to R.U.D.A., Inc. Underwater garment. 3,135,098, 6-2-64, Cl. 61-70.
- Root, John J. Animal stunner. 3,122,776, 3-3-64, Cl. 17-1.
- Root, Lowell Mfg. Co.: See—
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- Root, Raymond C.: See—
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- Root, Raymond C., to Dale Electronics, Inc. Adjustment indicator for panel-mounted trimmer potentiometers. 3,150,635, 9-29-64, Cl. 116-124.
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- Root, Wilbur L. Torch cutting guide attachment. 3,139,471, 6-30-64, Cl. 266-23.
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- Roosendaal, Klaas, to North American Philips Co., Inc. Column for fractionating gas mixture. 3,129,082, 4-14-64, Cl. 62-42.
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- Roper, Charles G., E. S. Gilchrist, and F. P. Finck, Jr., to Robertshaw Controls Co. Computer employing electro-mechanical balance. 3,127,510, 3-31-64, Cl. 235-193.
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- Roper Hydraulics, Inc.: See—
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- Ropp, Richard C., to Sylvania Electric Products Inc. Process for preparing a manganese activated cadmium chlorophosphate phosphor. 3,152,086, 10-6-64, Cl. 252-301.6.
- Ropp, Richard C., to Sylvania Electric Products Inc. Process for preparing pyrosilicate phosphors. 3,157,602, 11-17-64, Cl. 252-301.6.
- Roquemore, William A. Grass planters. 3,160,123, 12-8-64, Cl. 111-11.
- Roquemore, William K.: See—
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- Rorig, Kurt J., to G. D. Searle & Co. Xanthene 9-methyl dialkylaminoalkanoates. 3,149,125, 9-15-64, Cl. 260-335.
- Rorig, Kurt J., to G. D. Searle & Co. Amino esters of 2,3-bis(p-methoxyphenyl)substituted 1-pentanol and pentanoic acid. 3,152,143, 10-6-64, Cl. 260-326.3.
- Rorig, Kurt J., and H. A. Wagner, to G. D. Searle & Co. Certain 4-trifluoromethyl-2-(oxy/thio) pyrimidines. 3,149,109, 9-15-64, Cl. 260-251.
- Rorke, Michael. Multi-contact electric switch controller. 3,143,607, 8-4-64, Cl. 200-43.
- Rosa, Esau da Silva. Pumping system or apparatus for deep wells. 3,151,560, 10-6-64, Cl. 103-5.
- Rosa, John, to Westinghouse Electric Corp. Regulator for electrodynamic power system with current limitation. 3,155,591, 11-3-64, Cl. 318-143.

- Rosa, Richard J., to Avco Corp. Gas and liquid contact heat exchanger. 3,118,008, 1-14-64, Cl. 261-1.
- Rosa, Richard J., to Avco Corp. Electrical generator. 3,148,291, 9-8-64, Cl. 310-11.
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- Rosaen, Nils O., to The Rosaen Filter Co. Vacuum responsive valve. 3,117,525, 1-14-64, Cl. 103-41.
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- Rosaen, Oscar E. Variable delivery vane pump. 3,117,528, 1-14-64, Cl. 103-135.
- Rosaen, Oscar E., to The Rosaen Filter Co. Fluid filtering device. 3,129,171, 4-14-64, Cl. 210-108.
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- Rosain, Claude, and G. Stecherbacheff. Alternating current motors. 3,117,244, 1-7-64, Cl. 310-82.
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- Rosán, José, and A. J. La Torre, to Rosan Engineering Corp. Two piece insert. 3,163,197, 12-29-64, Cl. 151-41.73.
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- Rose, Fred G., to American Seating Co. Chair hook box and connector accessory. 3,125,372, 3-17-64, Cl. 297-188.
- Rose, George M., Jr.: See—
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- Rose, Joseph K. Remotely operated hand crank and gear drive for orientation of antennas on a mast. 3,146,452, 8-23-64, Cl. 343-758.
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- Rose, Kaye L. Photographic corners. 3,125,460, 3-17-64, Cl. 117-44.
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- Rose, Maurice T., Jr., and R. A. Kinkle, to General Electric Co. Broll unit for top viewing oven. 3,128,363, 4-7-64, Cl. 219-35.
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- Rosenberg, Harold B., and S. Schomberg, to Electronic Devices, Inc. Apparatus for manufacturing selenium rectifiers. 3,116,657, 1-7-64, Cl. 83-92.
- Rosenberg, Harold J., to Control Data Corp. Switching system for conveyor system. 3,153,705, 10-20-64, Cl. 200-18.
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- Rosenberg, Herbert O. Safety belt buckle for vehicle occupants. 3,144,697, 8-18-64, Cl. 24-242.
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- Rosenberry, George M., to General Electric Co. Control system for a generator. 3,121,836, 2-18-64, Cl. 322-24.
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- Rosenblatt, Theodore M., and J. Sosnowski, to Esso Research and Engineering Co. Start-up process for combined hydroforming hydrofining operation. 3,122,495, 2-25-64, Cl. 209-97.
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- Rosenkranz, John W., H. L. Beck, and H. E. Boettger, to General Motors Corp. Suspension control arm and spring assembly. 3,121,561, 2-18-64, Cl. 267-57.
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- Rosenthal, Frederick A., to United States of America, Navy. Self centering ring seal. 3,129,922, 4-21-64, Cl. 253-78.
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- Rosenthal, Paul, and J. W. Kurzrock, to United States of America, Navy. All weather vortex free-air thermometer. 3,139,751, 7-7-64, Cl. 73-349.
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- Rosentiel, Lewis S., to Schenley Industries, Inc. Convertible package. 3,119,494, 1-28-64, Cl. 204-42.
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- Rosenvold, Leo. Detachably mounted cultivator tooth apparatus. 3,125,170, 3-17-64, Cl. 172-762.
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- Ruben, Paul L., to Bausch & Lomb Inc. Optical system for microscope objective. 3,138,651, 6-23-64, Cl. 88-57.
- Ruben, Samuel. Sealed electrolytic capacitor. 3,124,728, 3-10-64, Cl. 317-230.
- Ruben, Samuel. Sealed semiconductor device and mounting means therefor. 3,152,293, 10-6-64, Cl. 317-234.
- Ruben, Samuel. Rechargeable cell and electrode therefor. 3,161,545, 12-15-64, Cl. 136-20.
- Rubens, Arnold. Disappearing Santa in chimney. 3,159,935, 12-8-64, Cl. 40-106.31.
- Rubens, George J. Resilient safety sleeve for electrical prongs. 3,147,055, 9-1-64, Cl. 339-36.
- Rubens, Harry S., to Engelhard Hanovia, Inc. Explosion-proof lamp. 3,137,804, 6-16-64, Cl. 313-312.
- Rubens, Harry S., and E. J. Kelly, to Engelhard Hanovia, Inc. Borescope. 3,155,761, 11-3-64, Cl. 88-14.
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- Rubens, Sidney M., A. V. Pohm, and C. D. Olson, to Sperry Rand Corp. Methods for making laminated structures. 3,155,561, 11-3-64, Cl. 156-278.
- Rubenstein, Albert M. Missile locator system. 3,121,222, 2-11-64, Cl. 343-5.
- Rubenstein, David. Structural element and method of making. 3,145,502, 8-25-64, Cl. 50-128.
- Rubenstein, David. Abuse resistant articles of manufacture and method of making. 3,150,032, 9-22-64, Cl. 161-161.
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- Brown, Frank R., Grabel, and Rubenstein. 3,118,397.
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- Rubin, James M. Orthodontic arch wire. 3,123,913, 3-10-64, Cl. 32-14.
- Rubin, Julius. Electric resistance thread-trimming device. 3,142,279, 7-28-64, Cl. 112-252.
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- Rubin, Saul H., and J. J. Vance, to Hoffmann-La Roche Inc. Composition containing mono-hydroxy aluminum-di-acetyl salicylate, caffeine, 3,3-diethyl-5-methyl-2,4-piperidinedione and 1-(4-chlorophenyl)-2-methyl-6,7-dimethoxy-1,2,3,4-tetrahydroquinoline. 3,138,530, 6-23-64, Cl. 167-55.
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- Rubio, Alfred M., and I. I. Komatsu, to Beltrone Electronics Corp. Combination switch and battery holder. 3,138,491, 6-23-64, Cl. 136-173.
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- Ruskin, Simon L., deceased, by C. Farhi, D. B. Ruskin and M. Reider, executors, to Union Carbide Corp. Cardiac auricular therapy with quinidine adenylate, quinidine adenosine diphosphate or quinidine adenosine triphosphate. 3,127,316, 3-31-64, Cl. 167-65.
- Russ, George A.: See—
- Russ, Nathan, Bernard, and Russ. 3,152,948.
- Russ, John A., to Westinghouse Air Brake Co. Shock resistant electrical relays. 3,146,382, 8-25-64, Cl. 317-197.
- Russ, John C., to General Electric Co. Electrical reactance balancing apparatus. 3,143,699, 8-4-64, Cl. 323-48.
- Russell, Alfred G., to Frank W. Egan & Co. High velocity dryer tube. 3,134,654, 5-26-64, Cl. 34-160.
- Russell, Anne S. Magnetic fastener. 3,161,032, 12-22-64, Cl. 24-203.
- Russell, Arthur G., and F. A. Clary, Jr., to American Can Co. Materials handling mechanism for unscrambling and sorting of tubular articles. 3,157,310, 11-17-64, Cl. 221-10.
- Russell, Arthur G., Co., Inc. The: See—
- Russell, Dion, Warren E., and Willis. 3,122,690.
- Russell, Arvin E., to J. A. Kester. Vehicle towing device. 3,152,704, 10-13-64, Cl. 214-86.
- Russell, Billy J., to North American Aviation, Inc. Over-travel mechanism. 3,140,618, 7-14-64, Cl. 74-10.2.
- Russell, Burton W., to Pontiac Specialties Mfg. & Dist. Corp. Ice spud. 3,153,215, 11-24-64, Cl. 175-398.
- Russell, Charles D.: See—
- Russell, Charles D., Jr., and Russell. 3,149,660.
- Russell, Charles R.: See—
- Russell, Guglielmelli, Lewis A., Mayer, and Russell. 3,132,181.
- Russell, Charles R., R. A. Buchanan, and C. E. Rist, to United States of America, Agriculture. Cellulosic pulps comprising crosslinked xanthate cereal pulps and products made there-with. 3,160,552, 12-8-64, Cl. 162-146.
- Russell, David L.: See—
- Russell, Wiles, Charles R., and Russell. 3,159,694.
- Russell, Wiles, Charles R., and Russell. 3,161,912.
- Russell, Don M.: See—
- Russell, Gould, Stanley E. 3,128,344.
- Russell, Drake P., to Larc Loc Co., Inc. Protective devices for knots of show laces. 3,132,394, 5-12-64, Cl. 24-119.
- Russell, Duane J., to United States of America, Navy. Transistor bipolar integrator. 3,119,029, 1-21-64, Cl. 307-88.5.
- Russell, Edward J., W. J. Carroll, Jr., and M. E. Kush. Trojan Powder Co. Pelleting explosive solids. 3,120,026, 2-4-64, Cl. 18-2.6.
- Russell, F. L., Corp.: See—
- Russell, Cline, Robert C. 3,125,356.
- Russell, Fred J. Threaded member with deflecting band anti-loosening device. 3,116,775, 1-7-64, Cl. 151-255.
- Russell, Fred J. Locking retractor slide. 3,127,208, 3-31-64, Cl. 292-336.3.
- Russell, Fred J. Split spindle cap. 3,149,485, 9-22-64, Cl. 70-224.
- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Low friction padlock mechanism. 3,117,427, 1-14-64, Cl. 70-38.
- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Push-turn button retaining means in shank end. 3,117,813, 1-14-64, Cl. 292-359.
- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Sliding key-actuated mechanism connector. 3,123,995, 3-10-64, Cl. 70-146.
- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Low-friction frame for locking devices. 3,126,217, 3-24-64, Cl. 292-1.
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- Russell, Frederick B., to Avco Corp. Wall structure for an MHD generator. 3,161,788, 12-15-64, Cl. 310-11.
- Russell, Frederick J., to Eastman Kodak Co. Photographic element having increased speed and contrast. 3,140,179, 7-7-64, Cl. 96-68.
- Russell, Gordon B.: See—
- Russell, Coates, Arthur, Russell, and Birchenbough. 3,146,977.
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- Russell, Gordon C., to Lockheed Aircraft Corp. Trap and drain manifold. 3,141,472, 7-21-64, Cl. 137-216.1.
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- Russell, James D., and E. C. Muehlfelt, to American Scientific Laboratories, Inc. Vaccine for aleutian disease (hypergammaglobulinemia) in mink. 3,157,576, 11-17-64, Cl. 167-78.
- Russell, James D., E. C. Muehlfelt, O. H. Grosse, and A. J. Ott, to American Scientific Laboratories, Inc. Antiserum and plasma for aleutian disease (hypergammaglobulinemia) in mink. 3,157,577, 11-17-64, Cl. 167-78.
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- Russell, James W., to Stair King, Inc. Stair-climbing power-driven tracked truck. 3,149,888, 9-22-64, Cl. 180-9.22.
- Russell, Jerome Y. Combined shipping and merchandising package. 3,139,979, 7-7-64, Cl. 206-45.12.
- Russell, John D., to Microdot Inc. Method for producing strain gages. 3,141,232, 7-21-64, Cl. 29-155.5.
- Russell, John W. Photographic enlarger system. 3,143,921, 8-11-64, Cl. 83-24.
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- Russell, Lindsay, to A. Alford. Rotary distributor, having time-delay line in rotor for simultaneously distributing input at different delays, to spaced stator points. 3,145,352, 8-18-64, Cl. 333-7.
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- Russell, Lorenzo C., and E. M. Dowling. Portable nut tree shaker. 3,132,458, 5-12-64, Cl. 56-328.
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- Russell, Norton A., and R. T. Gifford, to Vernay Laboratories, Inc. Check-relief valve. 3,159,176, 12-1-64, Cl. 137-493.1.
- Russell, Robert B. Thermotransfer copy process wherein a heat sink is positioned within the composite. 3,121,791, 2-18-64, Cl. 250-65.
- Russell, Robert B. Thermographic transfer sheet comprising selective radiation filtering means. 3,131,080, 4-28-64, Cl. 117-80.3.
- Russell, Robert B. Electrode holder for electric furnace electrodes and method of repairing same. 3,151,202, 9-29-64, Cl. 13-15.
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- Russell, Robert G., to Owens-Corning Fiberglass Corp. Porous fibrous sheet material. 3,120,463, 2-4-64, Cl. 161-153.
- Russell, Robert G., to Owens-Corning Fiberglass Corp. Method and apparatus for forming a woven textile by high speed projection of the weft threads. 3,130,755, 4-28-64, Cl. 139-18.
- Russell, Robert G., to Owens-Corning Fiberglass Corp. Apparatus for feeding a continuous untwisted multifilament strand. 3,139,226, 6-30-64, Cl. 226-190.
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- Russell, Robert G., and H. L. F. Bond. Rolling mills. 3,160,037, 12-8-64, Cl. 80-31.1.
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- Russo, Frank C., to Ferro Corp. Method for producing sintered ferrous article. 3,120,699, 2-11-64, Cl. 29-182.5.
- Russo, James E., and J. J. Vitola, to Wheelock Signals, Inc. Audible signal device. 3,127,602, 3-31-64, Cl. 340-392.
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- Xenis, Constantine P., and Russo. 3,163,181.
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- Rust, Frank P., and E. S. Olsen, to Chicago Bridge & Iron Co. Field machining apparatus. 3,145,622, 8-25-64, Cl. 90-13.
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 Rydberg, John A., to Gustavsbergs Fabriker, Aktiebolaget. Furnace for intermittent combustion. 3,143,160, 8-4-64, Cl. 158-4.
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- Sadler, Francis A. D., to Gilling Ltd. Booster assisted actuating systems. 3,138,071, 6-23-64, Cl. 91-384.
- Sadler, Fred S., to McGraw-Edison Co. Thermally stabilized cellulose materials for electrical insulation. 3,135,627, 6-2-64, Cl. 117-143.
- Sadler, Harry J., and E. E. Cook, to Hypro Engineering, Inc. Surge tank. 3,157,202, 11-17-64, Cl. 138-26.
- Sadler, James E., to International Harvester Co. Cotton picker doffer. 3,151,432, 10-6-64, Cl. 56-41.
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- Sadounet, Georges H., to E.V.A.G. Sociedad de Responsabilidad Limitada. Pumping unit. 3,153,387, 10-20-64, Cl. 103-208.
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- Brown, David, and Saffer. 3,155,717.
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- Saffin, Paul: See—
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- Saffir, Jacob A., to The Dentists' Supply Co. of New York. Method of cementing teeth having differently colored layers. 3,126,429, 3-24-64, Cl. 264-20.
- Saffir, Jacob A., to The Dentists' Supply Co. of New York. Dental hand piece. 3,141,650, 7-21-64, Cl. 253-2.
- Saffir, Jacob A., to The Dentists' Supply Co. of New York. Sterile surgical packaging. 3,148,772, 9-15-64, Cl. 206-63.2.
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- Saffranoff, Albert, to The Gillette Co. Hair curler. 3,122,146, 2-25-64, Cl. 132-39.
- Saffranoff, Albert, to The Gillette Co. Means locking valve actuating mechanism against accidental operation. 3,149,757, 9-22-64, Cl. 222-153.
- Safir, Aran. Apparatus for objectively testing an optical system. 3,136,839, 6-9-64, Cl. 88-56.
- Safrin, Julius, and E. J. Strohl, to Albert Verley & Co. Extraction of essential perfume fragrance components with fluorinated hydrocarbons. 3,150,050, 9-22-64, Cl. 167-91.
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- Sagal, John, Jr., and F. D. Allen, to Eastman Kodak Co. Antifoggants for photographic silver halide emulsions. 3,128,187, 4-7-64, Cl. 96-109.
- Sagara, Hideo, to Mitsubishi Shipbuilding & Engineering Co., Ltd. Multi-layer pipes. 3,163,183, 12-29-64, Cl. 138-144.
- Sagarin, Philip H., to Valve Corp. of America. Cap construction for aerosol dispensers. 3,153,497, 10-20-64, Cl. 222-394.
- Sagarin, Philip H., and W. R. O'Donnell, to VCA Inc. Aerosol dispenser having a top wall recessed to accommodate a valve button. 3,134,518, 5-26-64, Cl. 222-394.
- Sagarin, Philip H., and W. R. O'Donnell, to VCA, Inc. Aerosol dispenser having a wall-surrounded valve actuator button. 3,161,330, 12-15-64, Cl. 222-394.
- Sage, Ira M., to Keuffel & Esser Co. Electrographic printer. 3,144,354, 8-11-64, Cl. 118-40.
- Sage, Ira M., and B. Kaminstein, to Keuffel & Esser Co. Electrophotographic apparatus. 3,136,233, 6-9-64, Cl. 95-1.7.
- Sage, Walter P. Beater for drums. 3,150,555, 9-29-64, Cl. 84-422.
- Sage, Warble L.: See—
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- Sage, Warble L., F. L. Hemker, and R. M. Hardgrove, to The Babcock & Wilcox Co. Slurry fired cyclone furnace. 3,124,086, 3-10-64, Cl. 110-7.
- Sager, Guenter: See—
- Jorgensen, Adam A., and Sager. 3,121,801.
- Sager, Karl E.: See—
- Riese, Jerome W., and Sager. 3,136,685.
- Sager, Louis B. Bookmark. 3,137,269, 6-16-64, Cl. 116-119.
- Saginaw Industries Co.: See—
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- Saginaw Machine and Tool Co.: See—
- Cashman, Robert W., and Wasco. 3,149,852.
- Saginaw Products Corp.: See—
- Klemm, Edwin O., and Colwell. 3,134,461.
- Sagnis, James C., Jr.: See—
- Hewitt, Jack G., Jr., Sagnis, and Stuckert. 3,123,717.
- Sah, Chih-Tang, to Clevite Corp. Four layer semiconductor device. 3,146,135, 8-25-64, Cl. 148-33.3.
- Sahlberg, Carl G. I., to Bofors, Aktiebolaget. Loading pendulum assembly for an automatic gun. 3,134,303, 5-26-64, Cl. 89-45.
- Sahler, Carl P. Combined hot water and warm air heating system for household use. 3,144,207, 8-11-64, Cl. 237-2.
- Sahlun, Edward T., to E. I. du Pont de Nemours and Co. Pivoted cutter for running yarn line. 3,154,992, 11-3-64, Cl. 85-587.
- Sahlmann, Louis H.: See—
- Shenk, Robert H., Kane and Sahlmann. 3,153,921.
- Sahlrodt, Carl C.: See—
- Garton, Corbin E., and Sahlrodt. 3,127,683.
- Saholt, Orville J., to The Ryan Aeronautical Co. Launching system for pusher type propeller driven drones. 3,138,352, 6-23-64, Cl. 244-63.
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- Faukt, John A., and Sahyun. 3,162,685.
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- Sant, Roland E. Door stops, more particularly for smoke doors. 3,150,894, 9-29-64, Cl. 292-201.
- Santa Fe Instruments Inc.: See—
- Alcaro, Francis A. 3,150,506.
- Santangelo, Anthony S. Automatically inflatable flotation device for bathing suits. 3,130,424, 4-28-64, Cl. 9-316.
- Santangelo, Francis J., to Johnson & Johnson. Composite sterilizable container. 3,135,455, 6-2-64, Cl. 229-30.
- Santee, Gordon F.: See—
- Deretchin, David R., and Santee. 3,142,609.
- Santee, Harold P., to Oil Sand Conditioning Corp. Secondary oil recovery method. 3,135,326, 6-2-64, Cl. 166-9.
- Santeler, Donald J., to General Electric Co. Method and apparatus for gas analysis. 3,135,108, 6-2-64, Cl. 73-23.
- Santeler, Donald J., and F. C. Hurlbut, to General Electric Co. Cryogenic pumping apparatus. 3,131,396, 4-28-64, Cl. 62-404.
- Santelli, Thomas R., to Owens-Illinois Glass Co. Method of forming partly foamed plastic articles. 3,144,493, 8-11-64, Cl. 264-51.
- Santelli, Thomas R., to Johns-Manville Fiber Glass Inc. Method of treating a surface with a stable aqueous silanol dispersion. 3,154,431, 10-27-64, Cl. 117-161.
- Santilli, Arthur A.: See—
- Osdene, Thomas S., and Santilli. 3,122,544.
- Osdene, Thomas S., and Santilli. 3,122,547.
- Osdene, Thomas S., and Santilli. 3,134,776.
- Osdene, Thomas S., and Santilli. 3,138,592.
- Osdene, Thomas S., and Santilli. 3,138,594.
- Osdene, Thomas S., and Santilli. 3,138,595.
- Osdene, Thomas S., and Santilli. 3,138,595.
- Santillo, Samuel L., to Flexsteel Industries Inc. Seat spring structure. 3,156,460, 11-10-64, Cl. 267-102.
- Santini, Vincent. Multi-resonator accordion. 3,145,609, 8-25-64, Cl. 84-376.
- Sato, Don. Combination awning and storm shutter. 3,149,381, 9-22-64, Cl. 20-57.5.
- Santoleri, Joseph J.: See—
- Hyer, James P., and Santoleri. 3,138,150.
- Santora, James V. Staple button fastener. 3,142,878, 8-4-64, Cl. 24-96.
- Santoro, Peter F.: See—
- Grabowski, Hilary A., and Santoro. 3,116,977.
- Santos, Edward A.: See—
- O'Brien, John F., and Santos. 3,161,978.
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- Santourian, Melcon, to Phillips Petroleum Co. Miscible phase flooding in oil production. 3,126,951, 3-31-64, Cl. 166-9.
- Sanwa Misha Seizo Kabushiki Kaisha (Sanwa Sewing Machine Mfg. Co., Ltd.): See—
- Fujita, Toshio. 3,137,256.
- Sanyo Electric Co., Ltd.: See—
- Matsunaga, Takaho. 3,161,847.
- Yamano, Masaru, and Iemura. 3,152,271.
- Yamano, Masaru, and Ikeda. 3,156,585.
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- Sanyo Tokushu Seiko Kabushiki Kaisha: See—
- Tanaka, Shoichi. 3,129,727.
- Sanz, Manuel C. Pipette. 3,118,306, 1-21-64, Cl. 73-425.4.
- Sanz, Manuel C. Plunger sealing means for microtiter burette. 3,121,513, 2-18-64, Cl. 222-45.
- Saperstein, Sidney: See—
- Wingard, Winston H., and Saperstein. 3,125,451.
- Saphra, Frederick, to Sperry Rand Corp. Angular speed responsive device. 3,129,301, 4-14-64, Cl. 260-80.
- Sapilevsky, Piotr F., to Moscovsky Experimentalny Zavod Iskoostvennoi Kozhi e mekha. Method of manufacturing imitation fur from chenille yarns. 3,155,557, 11-3-64, Cl. 156-72.
- Saponara, Domenick, to Caloric Corp. Ventilated stove. 3,150,655, 9-29-64, Cl. 126-21.
- Saponara, Domenick, and W. T. Kemp, to Caloric Appliance Corp. Radiant burner. 3,122,197, 2-25-64, Cl. 158-116.
- Saporito, Vincent J., to Kollsman Instrument Corp. Pressure control switch. 3,122,617, 2-25-64, Cl. 200-83.
- Sapp, Julian F., Sr., to Louisville and Nashville Railroad Co. Vehicle underframe. 3,161,147, 12-15-64, Cl. 105-250.
- Sapper, Wolfgang: See—
- Kaupp, Josef, Thalhofer, Träger, and Sapper. 3,143,431.
- Sarafinas, Bruno A., to United-Carr Fastener Corp. Fastening device. 3,119,299, 1-28-64, Cl. 85-5.
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- Saranga, Cesare. Sealed beam headlight. 3,153,168, 10-13-64, Cl. 313-113.
- Sarapun, Erich. Electro-repressurization. 3,141,504, 7-21-64, Cl. 166-36.
- Sarco Co., Inc.: See—
- Curatola, Paul C. 3,162,208.
- Sarcone, Dominick C. Sewer cleaning machine. 3,159,861, 12-8-64, Cl. 15-104.3.
- Sardinas, Joseph L.: See—
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- Sarett, Lewis H.: See—
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- Sarett, Lewis H., to Merck & Co., Inc. 2,4-dibromo-9-halo-allopregnanes. 3,133,093, 5-12-64, Cl. 260-397.45.
- Sarett, Lewis H., and H. D. Brown, to Merck & Co., Inc. Anthelmintic compositions and methods of using same. 3,155,571, 11-3-64, Cl. 167-53.
- Sargeant, Melvin J.: See—
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- Sargent, Albert A., to Moore Business Forms, Inc. Strip severing machines. 3,135,446, 6-2-64, Cl. 225-100.
- Sargent, Bert L. Packaging machine. 3,133,391, 5-19-64, Cl. 53-206.
- Sargent's, C. G., Sons Corp.: See—
Carlin, Clarence A., Greenslade, and Lambert. 3,130,914.
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- Sargent, Charles F.: See—
Herer, Jack. 3,117,759.
- Sargent Engineering Corp.: See—
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- Sargent, Geoffrey W.: See—
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- Sargent, Herbert, and L. M. Richards, to Richfield Oil Corp. Decolorizing phthalic acids. 3,151,154, 9-29-64, Cl. 260-525.
- Sargent, Jack, to Seam Instrument Corp. Annunciator system with acknowledgment and reset. 3,136,982, 6-9-64, Cl. 340-213.1.
- Sargent, Le Roy H., to Varityper Corp. Photocomposing machine. 3,129,634, 4-21-64, Cl. 88-24.
- Sargent, Roger N., to The Dow Chemical Co. Decolorization of amino acids. 3,127,443, 3-31-64, Cl. 260-534.
- Sargent, Roger N., to The Dow Chemical Co. Repetitive process for the removal and/or recovery of amines from aqueous solutions. 3,159,632, 12-1-64, Cl. 260-268.
- Sargent, Roger N., and C. W. Riemann, III, to The Dow Chemical Co. Method of separating non-ionized organic solutes from one another in aqueous solution. 3,134,814, 5-26-64, Cl. 260-583.
- Sarjanian, Arshag, and W. Fritz; said Fritz assor. to said Sarjanian. Glove form. 3,159,504, 12-1-64, Cl. 118-500.
- Sarka, Albert J., to The Wean Engineering Co., Inc. Apparatus for shearing continuously advancing strip. 3,134,283, 5-26-64, Cl. 83-395.
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- Sarkar, Asim K.: See—
Adams, Dennis A. W., and Sarkar. 3,119,820.
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- Sarkes Tarzian, Inc.: See—
Krepps, James E. Jr. 3,146,399.
- Sarko, Anatole: See—
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- Zellin, Benjamin R., Sarko, and Germino. 3,128,208.
- Sarkus, Noreen T. Adjustable night stand and bed tray. 3,118,399, 1-21-64, Cl. 108-49.
- Sarlund, Pentti V.: See—
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- Sarmiento, Frank, and L. B. Almeida. Electrically operated feed metering device. 3,157,313, 11-17-64, Cl. 222-70.
- Sarnil S.A., Societe d'Applications de Recherches Minieres et Industrielles: See—
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- Sarnie, Michael C., Jr., and W. G. Vartanian. Support attachment for sleeping surfaces. 3,148,387, 9-15-64, Cl. 5-327.
- Sarnoff, Stanley J. Cartridge with antipilfering piston. 3,126,004, 3-24-64, Cl. 128-218.
- Sarnoff, Stanley J. Cartridge holder. 3,144,178, 8-11-64, Cl. 222-327.
- Sarna, William M. Marine anchor and storage bracket. 3,158,128, 11-24-64, Cl. 114-210.
- Saro, Richard F., to Detroit Sind Welding & Mfg. Corp. Mounting means and tool therefor. 3,147,832, 9-8-64, Cl. 189-88.
- Sarofeen, George M. J., to Tiltmuss Optical Co., Inc. Polishing synthetic resin lenses. Re. 25,620, 7-21-64, Cl. 51-284.
- Sarofeen, George M. J., to Tiltmuss Optical Co., Inc. Polishing synthetic resin lenses. 3,141,273, 7-21-64, Cl. 51-284.
- Sarong, Inc.: See—
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- Sarosy, Edmund F.: See—
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- Sandor, Bela, and Sarosy. 3,153,551.
- Sarraff, Robert J., and E. G. Steele, to Rockwell Mfg. Co. Lubricating compositions. 3,134,736, 5-26-64, Cl. 252-28.
- Sarraffian, George P.: See—
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- Sarrantonio, August C.: See—
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- Sarratt, Everett R., to Laboratory For Electronics, Inc. Digital data processing system. 3,129,322, 4-14-64, Cl. 235-92.
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- Sarret, Pierre L.: See—
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- Sarring, Ernest J., and P. E. Kleinberg, to Harris-Intertype Corp. Automatic continuous book trimmer. 3,146,650, 9-1-64, Cl. 83-91.
- Sarris, Renno N., 1/2 to J. C. Gault. Pneumatic tires and tubes. 3,145,754, 8-25-64, Cl. 152-342.
- Sarti, Eugenio: See—
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- Sarto, Jorma O., to Chrysler Corp. Floatless carburetor. 3,127,453, 3-31-64, Cl. 261-36.
- Sartor, Ernest R., and E. W. Vibrator. 3,135,124, 6-2-64, Cl. 74-87.
- Sartor, Ernest W.: See—
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- Sartor, Raymond A. Vehicle pipe rack. 3,161,296, 12-15-64, Cl. 211-60.
- Sartori, Mario F., to E. I. du Pont de Nemours and Co. Cationic azo dyes. 3,119,810, 1-28-64, Cl. 260-163.
- Sartori, Mario F., to E. I. du Pont de Nemours and Co. Naphthofuroquinolinediones and naphthofuroisoquinolinediones. 3,121,086, 11-21-64, Cl. 260-286.
- Sarui, Kitchiro, to Tokyo Giken Kabushiki Kaisha. Device for regenerating oxidized mineral oils. 3,154,488, 10-27-64, Cl. 210-500.
- Saruta, Susumu: See—
Kojima, Hiroshi, Kasahara, and Saruta. 3,124,682.
- Sarver, Wayne D., and T. J. Stolle. Landing gear warning system. 3,134,088, 5-19-64, Cl. 340-27.
- Sasaji, Ichiro, K. Ohno, and J. Kato, to Ajinomoto Kabushiki Kaisha. Resolution of ammonium N-acetyl-L-tryptophanates. 3,149,122, 9-15-64, Cl. 260-319.
- Sasaki, Kanzo, to Shionogi & Co., Ltd. 6-amino-4-pregnene-3,20-dione and N-acetyl derivatives thereof. 3,123,623, 3-3-64, Cl. 260-397.3.
- Sasaki, Kanzo, to Shionogi & Co., Ltd. 5a-hydroxy-6a-amino-steroids of the androstane series. 3,156,710, 11-10-64, Cl. 260-349.
- Sasaki, Kojiro, to Nihon Mifun Seizo Kabushiki Kaisha. Hand-operated knitting machine. 3,120,114, 2-4-64, Cl. 66-60.
- Sasaki, Rentaro, to Oki Electric Industry Co., Ltd. Type piece fixing device for high speed belt printer. 3,142,349, 7-28-64, Cl. 101-111.
- Sasaki, Yozo: See—
Ishikawa, Yoshiaki, Sasaki, and Inowaki. 3,130,568.
- Saski, Masaharu. Method of preparing positives comprising a hydrophilic nitrocellulose layer for printing and plate-making use. 3,143,415, 8-4-64, Cl. 96-33.
- Saslow, Seymour, to Esney Mfg. & Electronics Corp. Salt water battery. 3,148,090, 9-8-64, Cl. 136-100.
- Sasnett, Bolling H., Jr. Gasoline pump housing. 3,139,215, 6-30-64, Cl. 222-23.
- Sasnett, Russell M.: See—
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- Sass, Otto: See—
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- Grew, Ferdinand, Kaspers, Sasse, and Wegler. 3,146,161.
- Sasse, Klaus, R. Wegler, and G. Unterstenhofer, to Farbenfabriken Bayer Aktiengesellschaft. 2,3-dimercaptoquinoline derivatives. 3,141,886, 7-21-64, Cl. 260-250.
- Sasse, Klaus, R. Wegler, and G. Unterstenhofer, to Farbenfabriken Bayer Aktiengesellschaft. Amino mercapto quinolines. 3,157,654, 11-17-64, Cl. 260-250.
- Sasser, Lloyd L., Sr.: See—
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- Sassmannshausen, Knut. Search light. 3,144,993, 8-18-64, Cl. 240-41.3.
- Sassmannshausen, Knut. Electric incandescent lamp. 3,149,259, 9-15-64, Cl. 313-275.
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- Satam-Societe Anonyme pour tous Appareillages Mecaniques: See—
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- Satchell, Fred E., and W. L. Jollitz, to Brunswick Corp. Bowling pin. 3,138,380, 6-23-64, Cl. 273-82.
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- Sato, Akihiko, to Nippon Electric Co., Ltd. Method of manufacturing semiconductor devices. 3,150,021, 9-22-64, Cl. 156-17.
- Sato, Akihiko, and Y. Moriguchi, to Nippon Electric Co., Ltd. Method of producing improved alloyed silicon-aluminum P-N junctions. 3,122,460, 2-25-64, Cl. 148-185.
- Sato, Hisao: See—
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- Sato, Michiya: See—
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- Sato, Kenzo, to Kabushiki Kaisha Marita Seisakusho (known as J. Marita Dental Mfg. Co., Ltd.). Bearing holding mechanism of miniature air turbine for dental hand piece. 3,134,172, 5-26-64, Cl. 32-27.
- Sato, Reiji, N. Yamaguchi, and Y. Takanashi, to Tokyo Shibaura Electric Co., Ltd. Cap-shaped cathode for cathode ray tubes. 3,134,042, 5-19-64, Cl. 313-270.
- Sato, Shuichiro, and J. Nakaoka, to Nippon Sharyo Seizo Kaisha, Ltd. Foundation piles. 3,151,464, 10-6-64, Cl. 61-33.58.
- Sato, Shuichiro, and J. Nakaoka, to Nippon Sharyo Seizo Kaisha, Ltd. Driving head with plural impact motors. 3,151,687, 10-6-64, Cl. 175-21.

- Sato, Tomonori: See—
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- Sato, Yasunobu: See—
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- Satterthwaite, Carl W., to Link Division of General Precision, Inc. Flight simulator. 3,141,245, 7-21-64, Cl. 35-12.
- Sattler, Emil, and P. Schmidt. Process for purifying crude benzene. 3,131,231, 4-28-64, Cl. 260-674.
- Satyendra, Kudumalakunte N., to Westinghouse Electric Corp. Infrared missile fire control system. 3,133,188, 5-12-64, Cl. 235-61.5.
- Sauber, Charles J. Method of making a hollow thermoplastic club. 3,121,945, 2-25-64, Cl. 29-428.
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- Saucy, Gabriel, F. A. Smith, and L. H. Sternbach, to Hoffmann-La Roche Inc. Substituted-1,4-benzodiazepine-2(1H)-one compounds. 3,117,965, 1-14-64, Cl. 260-239.3.
- Sauder, William C. Chemical memory cell. 3,158,798, 11-24-64, Cl. 317-231.
- Sauer, Charles W., to United States of America, Army. Solid propellant containing organic oxidizers and polymeric fuel. 3,117,044, 1-7-64, Cl. 149-19.
- Sauer, Christian H., 1/2 to G. W. Stiefvator. Brake system for wheel supported vehicles. 3,126,073, 3-24-64, Cl. 188-2.
- Sauer, Curt: See—
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- Sauer, Edgar, J. Hahn, and K. Joos, to Zeiss Ikon Aktiengesellschaft. Photographic camera with automatic flash exposure mechanism. 3,118,356, 1-21-64, Cl. 95-30.
- Sauer, Hans, A. Gaiser, and W. Weber. Current impulse transmitter. 3,153,704, 10-20-64, Cl. 179-90.
- Sauer, Herman C., to United States Rubber Co. Method and apparatus for curing endless belts. 3,152,204, 10-6-64, Cl. 264-231.
- Sauer, Hermann, A. Schmidt, and K. Kopetz, to Chemische Werke Huls Aktiengesellschaft. Flame-resistant polyolefine composition. 3,141,860, 7-21-64, Cl. 260-33.8.
- Sauer, James F., J. T. Gebhardt, Jr., and E. D. Martenson, to Barber-Greene Co. Extensions for bituminous finishers. 3,155,021, 11-3-64, Cl. 94-45.
- Sauer, Joseph A.: See—
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- Sauer, Leo. Vehicle with container-lifting device. 3,148,794, 9-15-64, Cl. 214-394.
- Sauer, Louis. Foot and leg rest. 3,119,356, 1-28-64, Cl. 108-8.
- Sauerlander, Marie: See—
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- Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Bis-maleimides prepared from piperazines and N-substituted isomaleimides. 3,133,070, 5-12-64, Cl. 260-268.
- Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Polymers of N-substituted isomaleimides and a process for their preparation. 3,144,435, 8-11-64, Cl. 260-78.
- Sauers, Robert J. Baseboard scrubbing machine. 3,150,394, 9-29-64, Cl. 15-50.
- Saul, Henry C., and A. G. Troka, to Supreme Products Corp. Dual purpose chuck. 3,162,283, 12-22-64, Cl. 192-34.
- Saumslegle, Robert W. Pneumatic Scale Corp., Ltd. Packaging machine. 3,145,517, 8-25-64, Cl. 53-190.
- Saunders, Alan P. Centrifugal enclosed inert pump. 3,139,832, 7-7-64, Cl. 103-103.
- Saunders, Alfred P.: See—
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- Saunders, Charles E., Jr., to American Machine & Foundry Co., Inc. Force multiplier heavy duty manipulator handle. 3,146,634, 9-1-64, Cl. 74-501.
- Saunders, Charles L., Jr.: See—
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- Saunders, Edward R., Jr.: See—
Liby, Bennie S., and Saunders. 3,116,561.
- Saunders, Guy L., to Nordberg Mfg. Co. Hydraulic release for crushers. 3,125,304, 3-17-64, Cl. 241-231.
- Saunders, Jack N., to Warmac Ltd. Heating systems. 3,128,947, 4-14-64, Cl. 237-8.
- Saunders, Jack N., to Pressure Systems Ltd. High temperature heating systems. 3,140,048, 7-7-64, Cl. 237-56.
- Saunders, James: See—
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- Saunders, Milton A. Drawing instrument. 3,154,856, 11-3-64, Cl. 33-30.
- Saunders, Neal T., to United States of America, National Aeronautics and Space Administration. Method of producing porous tungsten ionizers for ion rocket engines. 3,141,769, 7-21-64, Cl. 75-222.
- Saunders, Percy L. Combined food container and heater. 3,145,706, 8-25-64, Cl. 126-262.
- Saunders, Philip G. Method and device for producing reference lines on printing dies. 3,123,000, 3-3-64, Cl. 101-401.1.
- Saunders, Ralph, to Burroughs Corp. Method of fabricating sub-miniature semi-conductor matrix apparatus. 3,158,927, 12-1-64, Cl. 29-155.5.
- Saunders, Rhoderick K.: See—
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- Saunders, Robert C. Game apparatus comprising a selector board and selector box. 3,144,252, 8-11-64, Cl. 273-130.
- Saunders Valve Co., Ltd.: See—
Bentley-Leek, Herbert. 3,151,837.
- Jarrett, Charles R. 3,134,570.
- Price, Richard H. 3,123,336.
- Price, Richard H. 3,157,383.
- Price, Richard H., and Jarrett. 3,120,817.
- Shand, Stanley G., and Bentley-Leek. 3,139,801.
- Saunders, Willard J. Automatic release device for seat belts. 3,142,102, 7-28-64, Cl. 24-230.
- Saunderson, Jason L., and E. Du Bois, to Baird-Atomic, Inc. Spectroscopic apparatus having an oblique monitor radiation exit slit. 3,163,698, 12-29-64, Cl. 88-14.
- Saurer, Adolph, Ltd.: See—
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- Saurer, Curt, to U.S. Universal Joints Co. Universal coupling. 3,120,745, 2-11-64, Cl. 64-14.
- Saurer, Curt, to Thornton Products Co. Hydraulic locking differential. 3,158,042, 11-24-64, Cl. 74-711.
- Sause, Henry, Jr. Load binding mechanism. 3,120,370, 2-4-64, Cl. 248-361.
- Sause, Henry W.: See—
Cusic, John W., and Sause. 3,155,652.
- Sausele, George J. H., to American Type Founders Co., Inc. Variable leading device for writing machines. 3,117,666, 1-14-64, Cl. 197-120.
- Sausen, George N., to E. I. du Pont de Nemours and Co. N-difluoro-amino-substituted hydrazines and their preparation. 3,149,165, 9-15-64, Cl. 260-583.
- Sauter, Bobbie S., to Deutsch Fastener Corp. Push fastener with inwardly directed limiting means. 3,125,922, 3-24-64, Cl. 85-5.
- Sautler, Jaeger: See—
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- Sauvage, John E., and H. S. Elliott, to Swift & Co. Animal slaughtering. 3,149,368, 9-22-64, Cl. 17-1.
- Sauvage, John E., and H. S. Elliott, to Swift & Co. Animal slaughtering. 3,149,370, 9-22-64, Cl. 17-45.
- Sauvaget, Maurice, to Compagnie Francaise de Television. Systems for switching devices for sequentially transmitted signals. 3,162,835, 12-22-64, Cl. 340-147.
- Savage Arms Corp.: See—
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- Savage, Conwell, to Westinghouse Electric Corp. Floor selector for an elevator control system. 3,160,232, 12-8-64, Cl. 187-29.
- Savage, Harry A., 50% to D. W. Barlow. Feed pump. 3,144,963, 8-18-64, Cl. 222-66.
- Savage, John, to Continuous Casting Co., Ltd. Construction of moulds used for the continuous casting of metals. 3,125,786, 3-24-64, Cl. 22-144.
- Savage, Kerry D.: See—
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- Savage, Kerry D., to Texaco Inc. Acoustical velocity well logging. 3,118,127, 1-14-64, Cl. 340-18.
- Savage & Parsons Ltd.: See—
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- Savage, Robert H.: See—
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- Huffman, Kenneth R., and Schaefer. 3,154,548.
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- Schäfer, Robert H., and D. C. Schlick, to Burroughs Corp. Data checking apparatus. 3,163,748, 12-29-64, Cl. 235-153.
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- Schaffert, Roland M., to International Business Machines Corp. Apparatus for the development of electrostatic images. 3,152,012, 10-6-64, Cl. 118-637.
- Schaffhausen, Albert N., to Minnesota Mining and Mfg. Co. Polypropylene film and method of making. 3,144,430, 8-11-64, Cl. 260-45.5.
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- Schlesinger, Kurt, to General Electric Co. Spiral electrostatic electron lens. 3,143,681, 8-4-64, Cl. 313-83.

- Schleuning, Hubert W.: See—
- Banks, Ephraim, Riederman, and Schleuning. 3,148,079.
- Schlichting, Karl: See—
- Radloff, Johannes, and Schlichting. 3,123,853.
- Schlichting, Kurt, to Zeiss Ikon Aktiengesellschaft. Air supported holder for recording and reproducing heads. 3,129,297, 4-14-64, Cl. 179-100.2.
- Schlick, David C.: See—
- Schafer, Robert H., and Schlick. 3,163,748.
- Schlick, Gerhard H., to Losenhausenwerk Dusseldorfer Maschinenbau A.G. Rotor support for balancing machines. 3,159,435, 12-1-64, Cl. 308-26.
- Schlick, Werner, to Vereinigte Glanzstoff-Fabriken AG. Production of novel effect fabrics and filaments and yarns therefor. 3,153,106, 10-13-64, Cl. 264-78.
- Schliekelmann, Robert J., D. H. van Graas, and A. van Poppelen, to Koninklijke Nederlandse Vliegtuigenfabrik Fokker N.V. Transducer. 3,119,254, 1-28-64, Cl. 73-71.5.
- Schliekmann, Albrecht, to Gutehoffnungshütte Sterkrade AG. Scavenging head assembly for rotary drilling apparatus. 3,155,403, 11-3-64, Cl. 285-111.
- Schlienz, Ralph W.: See—
- Anderson, William E., Schlienz, and Friling. 3,130,647.
- Schliephacke, Fridtjof F. Reclining chair and leg-rest control arrangement. 3,121,589, 2-18-64, Cl. 297-84.
- Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair. 3,121,590, 2-18-64, Cl. 297-85.
- Schliephacke, Fridtjof F., to A. Lorenz. Multiple position reclining chair. 3,131,966, 5-5-64, Cl. 297-89.
- Schliephacke, Fridtjof F., to A. Lorenz. Recliner chair of the multiple position type incorporating improved head-rest control. 3,132,894, 5-12-64, Cl. 297-61.
- Schliephacke, Fridtjof F., to A. Lorenz. Multiple movement lounge chair. 3,135,547, 6-2-64, Cl. 297-83.
- Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and leg-rest control arrangement. 3,140,893, 7-14-64, Cl. 297-85.
- Schliephacke, Fridtjof F., to A. Lorenz. Head-rest mounting and actuating arrangement. 3,147,037, 9-1-64, Cl. 297-61.
- Schliesser, John O. Animal guard for tile drain pipe. 3,118,469, 1-21-64, Cl. 137-527.8.
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- Schlig, Eugene S., and J. J. Lentz, to International Business Machines Corp. Superconductive amplifier. 3,119,076, 1-21-64, Cl. 330-62.
- Schlenger, Warren G.: See—
- Eastman Du Bois, and Schlenger. 3,117,072.
- Schlenger, Warren G., and D. B. Eastman, deceased (by Security First National Bank of Los Angeles, executor), to Texaco Inc. Hydroconversion of hydrocarbons. 3,118,830, 1-21-64, Cl. 208-59.
- Schlenger, Warren G., and D. B. Eastman, deceased (by Security First National Bank, executor), to Texaco Inc. Hydroconversion of hydrocarbons in two stages. 3,148,135, 9-8-64, Cl. 208-58.
- Schliophack, Gerhard, to H. Gerlach. Pressing road for pressing plates on support sheets. 3,157,910, 11-24-64, Cl. 18-4.
- Schliessel, Fred, to Penn-Akron Corp. Magnetic door catch. 3,155,409, 11-3-64, Cl. 292-251.5.
- Schloemann Aktiengesellschaft: See—
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- Behrendt, Otto, and Schiffrers. 3,129,818.
- Bohrn, Walter. 3,127,013.
- Bohrn, Walter, and Jarausch. 3,127,014.
- Haendeler, Walter, and Seidel. 3,157,282.
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- Schlor, Karl, to NSU Motorenwerke Aktiengesellschaft, and Wankel G.m.b.H. Sealing structure. 3,130,900, 4-28-64, Cl. 230-145.
- Schlor, Karl, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Air cooling of rotary piston engines. 3,134,369, 5-26-64, Cl. 123-8.
- Schlor, Karl, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Rotary mechanism having bearing cooling means. 3,134,370, 5-26-64, Cl. 123-8.
- Schloss, Fred, to United States of America, Navy. Mechanical impedance meter. 3,162,039, 12-22-64, Cl. 73-67.1.
- Schlosser, Alexander: See—
- Stern, Howard S., and Schlosser. 3,121,041.
- Schlosser, Bernard, and R. R. Guthridge. Drills for cutting wooden plugs with cross grain. 3,130,763, 4-28-64, Cl. 145-120.
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- Schlossin, Helmut H., to Hard Metals Ltd. Inserts for rock drill bits. 3,145,791, 8-25-64, Cl. 175-410.
- Schlote, Guido F. Slidable jaw end wrench with spiral actuator. 3,125,811, 3-24-64, Cl. 81-165.
- Schlotmann, Karl, to Stromag G.m.b.H. Maschinenfabrik. Flexible couplings. 3,137,149, 6-16-64, Cl. 64-11.
- Schlotterbeck, Karl S.: See—
- Murphy, John M., Schultz, and Schlotterbeck. 3,121,373.
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- Schlotzhauer, Walter R.: See—
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- Schluderberg, Donald C., to The Babcock & Wilcox Co. Gas-solids heat transport system. 3,125,158, 3-17-64, Cl. 165-39.
- Schluderberg, Donald C., to The Babcock & Wilcox Co. Pre-heating and cooling a nuclear reactor system. 3,155,595, 11-3-64, Cl. 176-20.
- Schlueter, Albert J.: See—
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- Schlueter, Ernest. Quarter turn fastener having camming head. 3,124,993, 3-17-64, Cl. 85-1.
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- Schlumberger, Etienne M., to Conch International Methane Ltd. Membrane tanks. 3,150,795, 9-29-64, Cl. 220-9.
- Schlumberger, Etienne M., and A. J. W. Ploum, to Conch International Methane Ltd. Membrane tanks. 3,150,794, 9-29-64, Cl. 220-9.
- Schlumberger Ltd.: See—
- Mott, William E. 3,151,243.
- Schlumberger, Y. & Cie: See—
- Harrel, Jean P. 3,156,951.
- Schlumberger Well Surveying Corp.: See—
- Bell, William T. 3,143,068.
- Blazg, Leon. 3,128,825.
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- Blizard, Robert B. 3,138,219.
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- Dewan, John T. 3,158,743.
- Doll, Henri Georges, and Dumanoir. 3,132,298.
- Goodman, Clark, and Gause. 3,142,756.
- Hart, Herbert J. 3,162,042.
- Johnson, Frank F. 3,139,528.
- Kokesh, Frank P. 3,120,122.
- Lannon, C. P., II. 3,154,147.
- Lebourg, Maurice P. 3,153,449.
- Lebourg, Maurice P. 3,158,428.
- McCune, James D. 3,139,704.
- Moran, James H. 3,147,429.
- Pardue, George H. 3,161,256.
- Schneider, William P. 3,124,742.
- Schuster, Nick A. 3,136,942.
- Shore, James B. 3,153,277.
- Soderberg, Carl R., Jr. 3,139,711.
- Stafford, John A., and St. John. 3,142,528.
- Sauger, Denis R. 3,119,061.
- Tancuy, Denis R. 3,150,314.
- Tittman, Jay. 3,156,822.
- Tittman, Jay, Nelligan, Antkiw, and Johnson. 3,124,679.
- Van Ness, Allan E., Jr., and Fischer. 3,121,459.
- Voetter, Ulrich E. 3,162,806.
- Whitten, Frank R. 3,147,807.
- Schlumbohm, Peter, deceased (F. J. Gorman, executor). Cool knob for handling hot elements. 3,119,143, 1-28-64, Cl. 16-118.
- Schlumbohm, Peter, deceased (F. J. Gorman, executor). Electric stove. 3,119,923, 1-28-64, Cl. 219-34.
- Schlumbohm, Peter. Turbine-motors. 3,130,545, 4-28-64, Cl. 60-39.35.
- Schlumbohm, Peter, deceased (F. J. Gorman, executor). Electric fan with stand. 3,137,440, 6-16-64, Cl. 230-273.
- Schlumbohm, Peter, deceased (F. J. Gorman, executor). Fan with evaporative cooling effect. 3,137,740, 6-16-64, Cl. 261-24.
- Schlumbohm, Peter, deceased (F. J. Gorman, executor). Multi-stage friction pump. 3,146,939, 9-1-64, Cl. 230-130.
- Schlütter, Heinz: See—
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- Schluter, John W., to Pfaunder, Permutit Inc. Flotation system. 3,117,082, 1-7-64, Cl. 210-221.
- Schluttenhofer, Ralph A., to Bell Telephone Laboratories, Inc. Trunk transfer circuit. 3,163,719, 12-29-64, Cl. 179-18.
- Schmader, Richard W.: See—
- Mitchell, David F., and Schmader. 3,133,882.
- Schmaeng, John F., to Beloit Iron Works. Sheet tension device. 3,149,489, 9-22-64, Cl. 73-144.
- Schmalbach, J. A., A.G.: See—
- Spier, Hans K., Mülke, and Seyderhelm. 3,133,639.
- Schmalfeld, Paul, to Metallgesellschaft Aktiengesellschaft. Method of oxidation hardening of briquettes. 3,140,985, 7-14-64, Cl. 202-15.

- Schmalzfeldt, Alfred H.: See—
Neufeld, Leonard C., and Schmalzfeldt. 3,153,253.
Schmalzfeldt, Alfred H., to The Delman Co. Windshield wiper control system. 3,133,303, 5-19-64, Cl. 15-250.16.
- Schmall, Edwin A.: See—
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- Schmaus, Siegfried H. A.: See—
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Schmaus, Siegfried H. A., to Ametek, Inc. Dispenser with selectively repeating cycle mechanism. 3,133,674, 5-19-64, Cl. 222-70.
- Schmeckenbecher, Arnold, to Sperry Rand Corp. Variable axis magnetic films. 3,124,490, 3-10-64, Cl. 148-31.55.
Schmerling, Donald W., to A. O. Smith Corp. Consumable electrode arc welding apparatus. 3,142,746, 7-28-64, Cl. 219-130.
- Schmerling, Louis: See—
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Luvist, John P., and Schmerling. 3,121,733.
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Schmerling, Louis, and H. S. Bloch, to Universal Oil Products Co. Polyoxalkylene glycol monoethers of aromatic amine derivatives of halocycloalkenes. 3,134,812, 5-26-64, Cl. 260-573.
- Schmermund, Alfred. Device for the controlled feeding of cigarettes or similar rod-shaped articles. 3,127,971, 4-7-64, Cl. 193-14.
Schmermund, Alfred. Cutting machine. 3,144,063, 8-11-64, Cl. 146-117.
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- Schmich, Matt F., to Motorola, Inc. Process for making fused junction semiconductor devices. Re. 25,633, 8-25-64, Cl. 148-179.
- Schmick, Quentin L., to Western Electric Co., Inc. Article transfer apparatus. 3,161,753, 12-15-64, Cl. 219-79.
- Schmid, Alois. Animal stall cleansing arrangements. 3,119,373, 1-28-64, Cl. 119-28.
- Schmid, Bruce K.: See—
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- Schmid, Hans: See—
Bernauer, Karl, Karrer, and Schmid. 3,118,897.
Boller, Arthur, Furst, Herzog, Schmid and Barner. 3,127,427.
- Schmid, Hans, and H. R. Mühlemann, to Gaba A.G. Compositions for use in caries prophylaxis. 3,124,512, 3-10-64, Cl. 167-93.
- Schmid, Heinrich, to Almatie A.G. Hydraulically controlled punch press. 3,119,292, 1-28-64, Cl. 83-124.
- Schmid, Henry S. Captive ball paddle toy. 3,157,400, 11-17-64, Cl. 273-97.
- Schmid, Hermann, to General Precision, Inc. Partial digitizer. 3,132,338, 5-5-64, Cl. 340-347.
- Schmid, Hermann, to Link Division of General Precision, Inc. Hybrid integrator circuit. 3,152,249, 10-6-64, Cl. 235-183.
- Schmid, John H. Flushing arrangement backflow preventer and water closet combination. 3,124,809, 3-17-64, Cl. 4-28.
- Schmid, Joseph R.: See—
Nagamatsu, Henry T., Schmid, and Sheer. 3,161,789.
- Schmid, Leopold F., to Dr. Ing. Porsche, h.c.F. K.G., Firma. Axially and transversely movable disk brake for vehicles. 3,146,859, 9-1-64, Cl. 188-70.
- Schmid, Raymond W., to Yale and Towne, Inc. Door holder. 3,144,267, 8-11-64, Cl. 292-275.
- Schmid, Raymond W., to Yale and Towne, Inc. Closer with hold-open pivot arm. 3,156,001, 11-10-64, Cl. 16-64.
- Schmid, Raymond W., to Yale and Towne, Inc. Hold-open mechanism for door closer. 3,156,002, 11-10-64, Cl. 16-79.
- Schmid, Raymond W., to Yale and Towne, Inc. Panic release door stop. 3,156,003, 11-10-64, Cl. 16-85.
- Schmid, Raymond W., and R. Wells, to Yale and Towne Inc. Deadlocking latch construction. 3,144,266, 8-11-64, Cl. 292-169.
- Schmid, Richard G., to Zenith Radio Corp. Ultrasonic signal generators. 3,118,423, 1-21-64, Cl. 116-137.
- Schmid, Richard G., to Zenith Radio Corp. Tape recorder. 3,136,464, 6-9-64, Cl. 226-91.
- Schmidling, Wilhelm: See—
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- Schmidinger, Joseph. Pull means for hot wire flashers or the like. 3,131,274, 4-28-64, Cl. 200-122.
- Schmidlin, Frederick W.: See—
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- Schmidt, Alfred T. Balanced wheel electromagnetic circuit interrupter. 3,129,303, 4-14-64, Cl. 200-90.
- Schmidt, Arthur, to North American Phillips Co., Inc. Reciprocating type conveyor. 3,154,191, 10-27-64, Cl. 198-219.
- Schmidt, C. Aug., Söhne G.m.b.H.: See—
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- Schmidt, C. S., Gesellschaft für Fordertechnik m.b.H.: See—
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- Schmidt, Carl O., Jr., to The Cincinnati Butchers' Supply Co. Method of bleeding slaughter animals. 3,132,374, 5-12-64, Cl. 17-35.
- Schmidt, Carl O., Jr., F. A. Zaenker, and C. E. Watson, to The Cincinnati Butchers' Supply Co. Method of bleeding slaughter animals. 3,127,635, 4-7-64, Cl. 17-45.
- Schmidt, Clarence J., to Goodyear Aerospace Corp. Random pattern radome structure. 3,154,887, 11-3-64, Cl. 50-52.
- Schmidt, Clayton E., to Schmidt Mfg. Co. Loom picker. 3,125,129, 3-17-64, Cl. 139-160.
- Schmidt & Clemens: See—
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- Schmidt, David L.: See—
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- Schmidt, Edgar J.: See—
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- Schmidt, Edward, to Reeves Soundcraft Corp. Computer recording disc assembly. 3,130,110, 4-21-64, Cl. 161-42.
- Schmidt, Edward R., to United States of America, Army. Variable damping circuits. 3,150,232, 9-22-64, Cl. 179-84.
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- Schmidt, Erich: See—
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- Schmidt, Ernest C.: See—
Schaefer, James C., and Schmidt. 3,137,647.
- Schmidt, Ernest C., and J. C. Schaefer, to W. M. Well. Copper-boron alloys and method of making same. 3,144,327, 8-11-64, Cl. 75-153.
- Schmidt, Franz: See—
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- Schmidt, Frederick A.: See—
Carlson, Oscar N., Schmidt, and Haefling. 3,150,964.
- Schmidt, George C., to Pittsburgh Chemical Laboratory. Soap feeder. 3,151,737, 10-6-64, Cl. 206-5.
- Schmidt, Gustav A., to General Electric Co. Trifluoroalkoxyalkyl substituted organosilicon compounds. 3,132,117, 5-5-64, Cl. 260-46.5.
- Schmidt, Hans, to Pines Engineering Co., Inc. Tube bending machine. 3,146,818, 9-1-64, Cl. 153-40.
- Schmidt, Harold and Howard. Land plane. 3,151,407, 10-6-64, Cl. 37-169.
- Schmidt, Harold N., to General Aniline & Film Corp. Conditioning of phthalocyanine pigments. 3,119,835, 1-28-64, Cl. 260-314.5.
- Schmidt, Heinrich, to Roller Bearing Co. of America. Self contained cage for retaining bearing rollers. 3,163,477, 12-29-64, Cl. 308-217.
- Schmidt, Helmut, J. W. Zimmermann, and K. Stetzelberg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Printing pastes, padding liquors and pigment dyeing process. 3,132,965, 5-12-64, Cl. 117-38.
- Schmidt, Hermann, to Johann Weiss Maschinenfabrik und Apparatebau G.m.b.H. Apparatus for labeling bottles, particularly bottles in upright position. 3,159,522, 12-1-64, Cl. 156-444.
- Schmidt, Howard: See—
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- Schmidt, Irene R. Foot sling. 3,149,630, 9-22-64, Cl. 128-84.
- Schmidt, Irving, and J. F. Taylor, to Multi-Metal Wire Cloth Co., Inc. Filter leaf support structure. 3,143,503, 8-4-64, Cl. 210-461.
- Schmidt, Jack F., to Carrier Corp. Reverse cycle heat pump. 3,132,490, 5-12-64, Cl. 62-81.
- Schmidt, Jacob, to Lockheed Aircraft Corp. Shock strut. 3,140,084, 7-7-64, Cl. 267-64.
- Schmidt, James L. Frankfurter slicer. 3,116,514, 1-7-64, Cl. 17-25.
- Schmidt, Jeff N.: See—
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- Schmidt, Joachim, H. Stock, and B. Zdralek, to United Shoe Machinery Corp. Bonding and sealing agents. 3,153,637, 10-20-64, Cl. 260-31.2.
- Schmidt, Joseph: See—
Soenksen, Hans, Stanger, Palm, and Schmidt. 3,153,096.
- Schmidt, Karl H.: See—
Kutik, Leon, and Schmidt. 3,151,016.
- Schmidt, Karl-Heinz: See—
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- Schmidt, Karl-Heinz, R. Brodt, and K. Lampatz, to Hooker Chemical Corp. Method of applying highly heat resistant protective coatings to metallic surfaces. 3,151,000, 9-29-64, Cl. 148-6.15.
- Schmidt, Karl-Ludwig: See—
Peter, Julius, Schmidt, and Bartl. 3,130,175.
- Schmidt, Karl O., to Schmidt Metallwarenfabrik, Gebrüder. Housing for traveling clocks. 3,162,997, 12-29-64, Cl. 58-56.

- Schmidt, Lewis W., 16% each to L. K. Schmidt, A. M. Jongeneel, L. W. Schmidt, C. A. Loucks; 10% each to G. C. Gordon, and E. F. Blackwelder; 8% to J. Newell; and 1 1/2% each to P. F. H. and R. E. Holt, H. H. Shelton, F. A. and D. A. Guernsey. Foliage deflecting unit. 3,126,062, 3-24-64, Cl. 171-42.
- Schmidt, Lewis W., 16% to L. K. Schmidt, 16% to A. M. Jongeneel, 10% to G. C. Gordon, 10% to E. F. Blackwelder, 16% to L. W. Schmidt, 16% to C. A. Loucks, 8% to J. Newell, 1 1/2% to P. F. H. Holt, 1 1/2% to F. H. Holt, 1 1/2% to R. E. Holt, 1 1/2% to H. H. Shelton, 1 1/2% to F. A. Guernsey, and 1 1/2% to D. A. Guernsey. Endless chain drive unit. 3,130,791, 4-28-64, Cl. 171-53.
- Schmidt, Lewis W., 16% to L. K. Schmidt, 16% to A. M. Jongeneel, 10% to G. C. Gordon, 10% to E. F. Blackwelder, 16% to L. W. Schmidt, 16% to C. A. Loucks, 8% to J. Newell, and P. G. F. H. and R. E. Holt, H. H. Shelton, and F. A. and D. A. Guernsey (all 1 1/2%). Pick-up wheel and stripper bar unit for beet harvesters. 3,144,083, 8-11-64, Cl. 171-39.
- Schmidt, Lloyd K.: See—
Schmidt, Lewis W. 3,126,062.
Schmidt, Lewis W. 3,130,791.
Schmidt, Lewis W. 3,144,083.
- Schmidt, Lothar M., to General Precision, Inc. Information storage and search system. 3,149,309, 9-15-64, Cl. 340-172.5.
- Schmidt, Ludwig M., to Sperry Rand Corp. Actuator block for punch units. 3,127,100, 3-31-64, Cl. 234-115.
- Schmidt Mfg. Co.: See—
Schmidt, Clayton E. 3,125,129.
- Schmidt Metallwarenfabrik, Gebrüder: See—
Schmidt, Karl O. 3,162,997.
- Schmidt, Otto, and E. Sirtl, to Siemens-Schuckertwerke Aktiengesellschaft. Pyrolytic method for precipitating silicon semiconductor material. 3,120,451, 2-4-64, Cl. 117-106.
- Schmidt, Paul: See—
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Druey, Jean, Schmidt, Wilhelm, and Eichenberger. 3,118,940.
- Sattler, Emil, and Schmidt. 3,131,231.
- Schmidt, Paul, E. Schumacher, and M. Wilhelm, to Ciba Corp. 3-amino-4'-7'-phenanthroline [5':6'-e]-1:2:4-triazines. 3,118,886, 1-21-64, Cl. 260-247.5.
- Schmidt, Paul, K. Eichenberger, and M. Wilhelm, to Ciba Corp. New sulfonylureas. 3,157,700, 11-17-64, Cl. 260-553.
- Schmidt, Paul A. Form-supporting structure for erecting concrete buildings. 3,140,524, 7-14-64, Cl. 25-131.
- Schmidt, Raymond F., and L. A. Brunenman, to Avco Corp. Cross-linear polarization system. 3,162,828, 12-22-64, Cl. 333-6.
- Schmidt, Richard. Adjusting and indicating device for the cams of circular knitting machines. 3,123,991, 3-10-64, Cl. 66-54.
- Schmidt, Robert C., to Cummins Engine Co., Inc. Fuel control. 3,128,750, 4-14-64, Cl. 123-140.
- Schmidt, Robert C., to Varian Associates. High frequency inductively tunable velocity modulation tube apparatus. 3,132,280, 5-5-64, Cl. 315-547.
- Schmidt, Robert C., to Cummins Engine Co., Inc. Piston construction. 3,134,306, 5-26-64, Cl. 92-209.
- Schmidt, Robert F., H. A. Leidecker, and D. G. Kirk, to Elgin Sweeper Co. Street sweeper dirt box assembly. 3,162,877, 12-29-64, Cl. 15-83.
- Schmidt, Robert W., to Imac Corp. Method and apparatus for accurately filling liquid containers. 3,162,258, 12-22-64, Cl. 177-1.
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- Velonis, Stamatis G., Schnitzler, and Richardson. 3,148,235.
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- Schofer, Rudolf, W. Heywang, and E. Penner, to Siemens & Halske Aktiengesellschaft. Circuit arrangement for automatically stabilizing the temperature of an electrical heating appliance. 3,148,271, 9-8-64, Cl. 219-504.
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- Schott, Lawrence A., 1/2 to Charles A. Raleigh. Means for filling a frankfurter with a strip of cheese. 3,161,154, 12-15-64, Cl. 107-1.
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- Schott, Warren B., to L. J. Barwood Mfg. Co., Inc. Machine for assembling fastener units. 3,138,286, 6-23-64, Cl. 221-10.
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- Schrecongost, Ray B., and R. C. Carlson, to Admiral Corp. Power transmission mechanism. 3,145,581, 8-25-64, Cl. 74-472.
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- Schreiber, Charles H.: See—
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- Schreiber, Gus. Low flow hydraulic systems such as automotive braking mechanisms. 3,118,280, 1-21-64, Cl. 60-54.5.
- Schreiber, Gus. Internal combustion engines. 3,124,112, 3-10-64, Cl. 123-48.
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- Schreiber, L. D., Cheese Co., Inc.: See—
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- Schreier, Wilhelm, to P. Fanghanel and Co. Ltd. Convertible chairs. 3,128,123, 4-7-64, Cl. 297-118.
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- Schreiner, Robert J., to General Electric Co. False error prevention circuit. 3,119,980, 1-28-64, Cl. 340-146.3.
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- Sexton, Robert W., to American Air Filter Co., Inc. Gas treating device and system. 3,134,825, 5-26-64, Cl. 261-16.
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- Silverberg, Morton, to Radio Corp. of America. Electrical circuit having voltage divider effecting priming and gates effecting sequence. 3,147,387, 9-1-64, Cl. 307-88.5.
- Silverling, Donald.: Amusement device with gun and apertured target. 3,127,173, 3-31-64, Cl. 273-101.
- Silverman, Benjamin B.: Branch fitting for pipes. 3,159,413, 12-1-64, Cl. 285-189.
- Silverman, Daniel: See—
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- Silverman, Daniel, to Pan American Petroleum Corp. Explosive charge unit. 3,150,590, 9-29-64, Cl. 102-21.6.
- Silverman, Daniel.: Information retrieval systems. 3,158,846, 11-24-64, Cl. 340-174.1.
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- Silverman, Daniel, and C. F. Hadley, to Pan American Petroleum Corp. Seismic analog record computer. 3,142,750, 7-28-64, Cl. 235-184.
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- Silverman, Harold, to Mald-Rite Novelty Corp. Embossed shoulder straps. 3,153,245, 10-20-64, Cl. 2-338.
- Silverman, Harold, to Mald-Rite Novelty Corp. Embossed shoulder straps. 3,153,246, 10-20-64, Cl. 2-338.
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- Silverman, Herman: See—
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- Silverman, Ira, 50% to H. Silverman. Liquid clarification apparatus. 3,149,072, 9-15-64, Cl. 210-232.
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- Silverman, Jerry S.: Transportation apparatus. 3,125,964, 3-24-64, Cl. 104-89.
- Silverman Joseph, to W. R. Grace & Co. Halogenation of irradiated polymers. 3,156,636, 11-10-64, Cl. 204-154.
- Silverman, Milton J.: Devices for handling cargo containers and pallets. 3,138,398, 6-23-64, Cl. 294-67.
- Silverman, Morris B., to California Research Corp. Process for increasing the hydrocracking activity of a supported nickel catalyst using phosphorous pentafuoride. 3,144,414, 8-11-64, Cl. 252-437.
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- Silvern, David H.: Heating and air conditioning apparatus. 3,153,442, 10-20-64, Cl. 165-50.
- Silvers, Jerry J., L. and A. Rosenblatt, and C. S. Vossbrink, to Globe Illumination Co. Illumination fixtures. 3,117,729, 1-14-64, Cl. 240-51.11.
- Silverschotz, Stanford B., to International Telephone and Telegraph Corp. Automatic mail sorting system. 3,136,424, 6-9-64, Cl. 209-111.5.
- Silversjo, Kurt E. S.: See—
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- Silversstein, Abraham.: Diverse type underwater antennas responsive to electric and magnetic field components. 3,121,229, 2-11-64, Cl. 343-709.
- Silversstein, Abraham, to United States of America, Navy. Releasable coupling means. 3,139,032, 6-30-64, Cl. 102-49.
- Silversstein, Harry: See—
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- Silversstein, Paul.: Label printing and dispensing machine. 3,146,149, 8-25-64, Cl. 156-385.
- Silversstein, Robert M., and F. R. Mayo, to United States of America, Air Force. Gelation inhibitors for silicone oils. 3,146,202, 8-25-64, Cl. 252-49.6.

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- Silveston, Peter L.: See—
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- Silvestre, Sabino.: Flexible hanging curtains. 3,155,150, 11-3-64, Cl. 160-348.
- Silvestri, Achille, to United States of America, Navy. Indicator composition. 3,119,780, 1-28-64, Cl. 252-408.
- Silvestri, Michael A.: See—
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- Silvestrini, Bruno: See—
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- Silvray Lighting, Inc.: See—
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- Sim, Gordon, to Teletype Corp. Code altering device. 3,145,919, 8-25-64, Cl. 234-22.
- Sim, Gordon, to Teletype Corp. Carriage decelerating mechanism for telegraph page printers. 3,163,261, 12-29-64, Cl. 188-94.
- Sim, Gordon, and R. A. Thienemann, to Teletype Corp. Tape perforator. 3,145,921, 8-25-64, Cl. 234-102.
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- Simca Automobiles: See—
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- Sime, Sylvan H.: Animal feed conveying, blending and distributing apparatus. 3,116,716, 1-7-64, Cl. 119-52.
- Sime, Sylvan H.: Silo unloader. 3,144,144, 8-11-64, Cl. 214-17.
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- Simek, Jerry V.: See—
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- Simek, Joseph E., J. Strojny, and A. H. Widiger, Jr., to The Dow Chemical Co. Removal of volatile organic materials from aqueous hydrochloric acid. 3,140,244, 7-7-64, Cl. 202-46.
- Simes S.p.A.: See—
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- Simjian, Luther G., to Universal Match Corp. Receipt giving machine. 3,121,363, 2-18-64, Cl. 83-428.
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- Simjian, Luther G.: Service area with compartments. 3,130,395, 4-21-64, Cl. 340-280.
- Simjian, Luther G.: Apparatus for providing solid reproductions. 3,135,828, 6-2-64, Cl. 178-6.6.
- Simjian, Luther G., to Universal Match Corp. Depository machine with internal and remote recording. 3,148,932, 9-15-64, Cl. 346-22.
- Simjian, Luther G., to Universal Match Corp. Depository machine combined with image recording means. 3,150,912, 9-29-64, Cl. 346-22.
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- Simkins, Daniel, to Continental Can Co., Inc. Folded carton having separable units. 3,158,312, 11-24-64, Cl. 229-51.
- Simmen, William: See—
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- Simmerman, Harry G.: See—
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- Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Lubricants of organopolysiloxanes. 3,122,507, 2-25-64, Cl. 252-49.6.
- Simmon, Alfred, to Laboratory Furniture Co., Inc. Constant focus adjustable projector. 3,125,926, 3-24-64, Cl. 88-24.
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- Simmons, Arthur L., D. W. Roese, and J. W. Dzimlanski, to Westinghouse Electric Corp. Angular velocity measuring device. 3,143,589, 8-11-64, Cl. 73-505.
- Simmons, Arthur W., and J. Washburn, to Westinghouse Brake and Signal Co., Ltd. Load modified electric distribution system for brakes. 3,118,707, 1-21-64, Cl. 303-22.
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- Simmons, Brian D., to Associated Electrical Industries Limited. Counter employing plural circulating delay-line stores for stages with carry feedback to effect reset. 3,148,333, 9-8-64, Cl. 328-48.
- Simmons, Brian D., to Associated Electrical Industries Ltd. Pulse counter employing plural circulating delay-line stores for stages and coincident gating to effect counting. 3,149,286, 9-15-64, Cl. 328-50.
- Simmons, Charles C., to Ransburg Electro-Coating Corp. Electrostatic coating apparatus. 3,147,145, 9-1-64, Cl. 118-624.
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- Simmons, Charles S.: Tool holder. 3,156,388, 11-10-64, Cl. 224-5.
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- Simmons, Daniel F., and H. V. Wainright, to Celanese Corp. of America. Mixed aryl phosphate esters having unusual kinematic viscosities. 3,125,529, 3-17-64, Cl. 252-49.8.
- Simmons, Donald E., to B. R. Carney, 17-500 to F. R. Sisk, 140 to O. B. Hofstetter Jr., and 2.5 parts to H. Schoun. Rewinder and tape lock. 3,141,550, 7-21-64, Cl. 206-53.
- Simmons, Edward C., to General Motors Corp. Refrigerating apparatus with defrost means. 3,120,111, 2-4-64, Cl. 62-216.
- Simmons, Elmer C., to Laboratory for Electronics, Inc. Cathode ray tube display system having both specific symbol and generalized data control of the tube display. 3,130,397, 4-21-64, Cl. 340-324.
- Simmons, George S., Jr., to Crompton & Knowles Corp. Protector means for shuttles. 3,126,921, 3-31-64, Cl. 139-155.
- Simmons, Gustavus J.: See—
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- Simmons, Harry C.: Band blade sharpener. 3,120,086, 2-4-64, Cl. 51-250.
- Simmons, Henry T.: Equipment for weaver's shuttle. 3,147,777, 9-8-64, Cl. 139-198.
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- Simmons, John W.: See—
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- Simmons, John W., to The Lamson & Sessions Co. Method of and machine for cutting and forming articles. 3,134,421, 5-26-64, Cl. 153-2.
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- Simmons, Michael C. A.: See—
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- Simmons, Milton E., to General Motors Corp. Coil spool construction. 3,129,348, 4-14-64, Cl. 310-194.
- Simmons, William B., L. G. Shealy, R. C. Garrett, and W. P. Shannon, to St. Joe Paper Co. Pulping processes. 3,147,179, 9-1-64, Cl. 162-76.
- Simms, John A., to E. I. du Pont de Nemours and Co. Polyvinyl fluoride laminates and process for making same. 3,133,854, 5-19-64, Cl. 161-189.
- Simms Motor Units Ltd.: See—
Paterson, Thomas, and Miracki. 3,153,405.
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- Simms, Robert L., Jr., to Bell Telephone Laboratories, Inc. Checking circuit. 3,160,852, 12-8-64, Cl. 340-146.1.
- Simms, Stanton G.: Rotary side mounted cultivator. 3,138,208, 6-23-64, Cl. 172-38.
- Simms, Thomas S., to General Electric Co. Method and apparatus for curing gasket deformities. 3,140,328, 7-7-64, Cl. 264-230.
- Simnad, Massoud T.: See—
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- Simnad, Massoud T., to General Dynamics Corp. Method of fabricating a fuel element. 3,154,845, 11-3-64, Cl. 29-470.
- Simnad, Massoud T., J. C. Rokros, and H. P. Sleeper, Jr., to General Dynamics Corp. Method of hydriding. 3,135,697, 6-2-64, Cl. 252-301.1.
- Simon, Albert, to Commissariat a l'Energie Atomique. Disassembly and decontamination apparatus especially for calutrons. 3,143,119, 8-4-64, Cl. 134-59.
- Simon, Albert E., Jr., and H. E. Steinberg, to Esterbrook Pen Co. Marking instrument. 3,141,187, 7-21-64, Cl. 15-563.
- Simon, Albert W.: See—
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- Simon, Arthur S.: See—
Congleton, John S., and Simon. 3,149,994.

- Simon-Carves Ltd.: See—
Beawick, Clifford K. and Whitehurst. 3,130,211.
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Simon, Fred W., to Dynamics Corp. of America. Method and apparatus for testing impedance elements utilizing a modified Wheatstone bridge. 3,150,315, 9-22-64, Cl. 324-62.
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Simon, Harry. Key cutting machine and method. 3,118,346, 1-21-64, Cl. 90-13.05.
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Brown, Thomas J. A., and Wolfenden. 3,157,365.
Simon, Jack, to L. M. Rabinowitz & Co., Inc. Method and machine for forming bent eye tape. 3,126,043, 3-24-64, Cl. 153-1.
Simon, Jack, to S. M. Rabinowitz & Co., Inc. Sewing machine for feeding, sewing and cutting sections of tape. 3,128,730, 4-14-64, Cl. 112-2.
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Simon, John G., and J. G. Songas, to Minnesota Mining and Mfg. Co. Copper coating compositions. 3,141,780, 7-21-64, Cl. 106-1.
Simon, Juan C. Electric heater. 3,119,918, 1-28-64, Cl. 219-19.
Simon, Lester S. Heat-radiating curtain. 3,141,954, 7-21-64, Cl. 219-201.
Simon, Ludwig, to J. M. Voith Aktiengesellschaft. Continuously operable vertical digester for cooking pre-impregnated fibrous raw materials. 3,144,381, 8-11-64, Cl. 162-237.
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Simon, Myron S.: See—
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Simon, Myron S., to Polaroid Corp. Azo dyes. 3,134,765, 5-26-64, Cl. 260-162.
Simon, Myron S., to Polaroid Corp. Aminophenyl hydroquinones. 3,134,811, 5-26-64, Cl. 260-571.
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Simon, Ralph, to Battelle Memorial Institute. Heat pumps. 3,154,927, 11-3-64, Cl. 62-3.
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Simon, Reuben. Data retaining capsule. 3,151,740, 10-6-64, Cl. 206-37.
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Simonds, George D., Jr., to Badger Meter Mfg. Co. Control mechanism. 3,120,131, 2-4-64, Cl. 74-157.
Simonds, June M. Toy making wheel assemblies. 3,120,719, 2-11-64, Cl. 46-17.
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Simons, Alloys, to H. Krantz-Aachen. Electronic monitor device for centrifuges. 3,161,273, 12-15-64, Cl. 192-136.
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Simons, Edward W., to DuPont Corp. Method and apparatus for conditioning gas. 3,143,952, 8-11-64, Cl. 98-36.
Simons, Ernest D., and S. R. Tyler, to Dowty Fuel System Ltd. Liquid pumping apparatus. 3,118,491, 1-21-64, Cl. 145-36.3.
Simons, Hubert, to Compagnie de Saint-Gobain. Glass bending apparatus. 3,163,515, 12-29-64, Cl. 65-289.
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Winston, Eric, and Simons. 3,140,454.
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Simplicity Engineering Co.: See—
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Simplicity Mfg. Co.: See—
Kamukhin, Igor. 3,123,961.
Simpson, Allan R., Jr. Position rings for drumsticks. 3,137,194, 6-16-64, Cl. 84-422.
Simpson, Altus L., and D. P. Hammon. Apparatus for selectively cementing pipe casing. 3,139,931, 7-7-64, Cl. 166-63.
Simpson, Anthony W., to The Plessey Co. Ltd. Ferrite core inductor variable by altering direction of steady magnetic field. 3,151,305, 9-29-64, Cl. 336-110.
Simpson, Arthur A. Warming and dehumidifying cabinet. 3,134,886, 5-26-64, Cl. 219-400.
Simpson, David M. Collet holder. 3,160,420, 12-8-64, Cl. 279-110.
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Simpson, Elmer L. Safety leverage extension. 3,119,278, 1-28-64, Cl. 74-524.
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Hupke, Glen P. 3,155,472.
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Simpson, James R., and G. C. May, to Rolls-Royce Ltd. Reheat apparatus for a gas turbine engine. 3,141,298, 7-21-64, Cl. 60-35.6.
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Bozek, John S., and Simpson. 3,124,065.
Simpson, Orvin D. Method for detecting short circuits between insulated pipe sections utilizing radio frequency skin effect currents. 3,163,817, 12-29-64, Cl. 324-52.
Simpson, Richard W., to Reed Electromech Corp. Coin testing device. 3,145,821, 8-25-64, Cl. 194-102.
Simpson, Robert J. Can opener. 3,151,764, 10-6-64, Cl. 220-52.
Simpson, Robert L. Curtain valve. 3,137,315, 6-16-64, Cl. 137-62.28.
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Simpson, William, to Newey Brothers Ltd. Sewing machine with hook and eye attachment. 3,147,719, 9-8-64, Cl. 112-2.

- Simpson, William G. Amusement apparatus for use by a person lying on his back. 3,135,513, 6-2-64, Cl. 273-110.
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Sims, Clark D.: See—
Mount, Keith B., and Sims. 3,120,912.
Sims, Claude C., to United States of America, Navy. Underwater sound transducer with sealed liquid coupling chamber. 3,118,125, 1-14-64, Cl. 340-12.
Sims, David L. and A. M. Race starting stalls. 3,163,150, 12-29-64, Cl. 119-15.5.
Sims, Everett G., and H. M. Duvall, Jr. Caustic recovery unit with specific gravity flow control means. 3,154,456, 10-27-64, Cl. 159-20.
Sims, Glenn E.: See—
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Sims, Homer J., to Rohm & Haas Co. Halogenated 2-keto-[2,2,2]-bicyclooctene-7-ketones, acids, and esters. 3,117,989, 1-14-64, Cl. 260-468.
Sims, Homer J., to Rohm & Haas Co. Bicyclooctanes and method of preparation. 3,143,563, 8-4-64, Cl. 260-468.
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- Sloane, Peppy M. Printing device. 3,146,707, 9-1-64, Cl. 101-329.
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- Small, Augustus B., and L. W. McLean, to Esso Research and Engineering Co. Method of preventing reactor fouling. 3,135,721, 6-2-64, Cl. 260-80.7.
- Small, Charles B.: See—
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- Small, Charles L., to Hendrickson Mfg. Co. Tandem axle suspension. 3,129,016, 4-14-64, Cl. 280-104.5.
- Small, Donald E., to Amchem Products, Inc. Esters of γ (2,4,5-trichlorophenoxy)-butyric acid. 3,144,480, 8-11-64, Cl. 260-473.
- Small, Donald L., to Longview Fibre Co. Carton construction for rifles and the like. 3,156,351, 11-10-64, Cl. 206-46.
- Small, Edward F. Spinning reel with adjustable flyer and one-way brake. 3,138,344, 6-23-64, Cl. 242-84.21.
- Small, Hamish, to The Dow Chemical Co. Composition for use in solvent extraction process for the recovery of uranium and rare earth metals from aqueous solutions. 3,146,213, 8-25-64, Cl. 260-22.

- Small, Hamish, to The Dow Chemical Co. Method of extractively separating mixed metallic species. 3,151,931, 10-6-64, Cl. 23-14.5.
- Small, Leslie C., and T. H. Holmes, to United Aircraft Corp. Ray intensity control for solar mirror. 3,162,189, 12-22-64, Cl. 128-270.
- Small Motors Inc.: See—
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- Webster, Alfred B., Small, and Rigby. 3,163,593.
- Small, Richard H.: See—
- Bell, Norton W., Small, and Soffel. 3,148,339.
- Small, Russel L., to United States Steel Corp. Blast furnace probe. 3,152,479, 10-13-64, Cl. 73-421.5.
- Small, Samuel N., to A. G. Cohen, and P. Weiss. Collapsible knockdown cabana. 3,120,978, 2-11-64, Cl. 297-184.
- Small, Samuel N., to J. Duberstein. Apparatus for feeding and cutting elongated workpieces. 3,125,918, 3-24-64, Cl. 83-150.
- Small, Samuel N., to J. Duberstein. Apparatus for shearing elongated workpieces during feed of said workpieces. 3,149,521, 9-22-64, Cl. 83-320.
- Small, Samuel N., to A. G. Cohen, and P. Weiss. Tilttable support for umbrellas. 3,149,638, 9-22-64, Cl. 185-46.
- Small, Samuel N., to A. G. Cohen, and P. Weiss. Adjustable support for umbrellas. 3,155,953, 11-3-64, Cl. 248-40.
- Small, Terrell J. Apparatus for use in charging and/or drying a refrigeration system. 3,118,288, 1-21-64, Cl. 62-292.
- Smalley, Edwin P., F. Dawson, and L. P. Entin, to Compo Shoe Machinery Corp. Sole roughing machinery. 3,119,133, 1-28-64, Cl. 12-17.
- Smalley, Harvey D. Portable tank spraying apparatus. 3,147,923, 9-8-64, Cl. 239-373.
- Smalley, Hugh W.: See—
- Searight, Charles E., Smalley, and Robinson. 3,138,444.
- Smalley, Kenneth L., to Phillips Petroleum Co. Storage and transportation case. 3,160,306, 12-8-64, Cl. 220-9.
- Smalley, Robert E.: See—
- Mitchell, Francis E. 3,153,945.
- Smallpeice, Cosby D. P., Jr., to Nuqup Ltd. Safety valves. 3,129,784, 4-21-64, Cl. 181-37.
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- Allmanestiano, Constantino. 3,118,187.
- Smallwood, Harold T.: See—
- Price, John A., and Smallwood. 3,149,098.
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- Smart, Alfred W., deceased, by H. A. Smart, executrix, to Midland-Koss Corp. Apparatus for coating articles by dipping. 3,121,646, 2-18-64, Cl. 118-1.
- Smart, Ernest F., to Westinghouse Electric Corp. Apparatus for assembly of electron devices. 3,159,904, 12-8-64, Cl. 29-25.19.
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- Pendleton, Joseph R., and Smart. 3,121,146.
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- Smeko, Florian. Scraper and cutter. 3,157,946, 11-24-64, Cl. 30-169.
- Smedley, James L. Remote starting arrangement for automobile engines. 3,163,770, 12-29-64, Cl. 290-38.
- Smedley, Lee E. Metal-sod dam. 3,161,026, 12-15-64, Cl. 61-3.
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- Smee, Peter G., to General Electric Co. Distortion free single stage amplifier. 3,135,927, 6-2-64, Cl. 330-111.
- Smeets, Gerard G. F., to Houdaille Industries, Inc. Punch and die assembly having spaced tool positioning plates. 3,125,917, 3-24-64, Cl. 83-140.
- Smeets, Gerard G. F., to Pierce-All Mfg. Ltd. Punch and guide assembly. 3,130,620, 4-28-64, Cl. 83-140.
- Smojda, Richard K. Roller printing machines. 3,120,802, 2-11-64, Cl. 101-157.
- Smolko, Joseph F.: See—
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- Smolzer, Jack C., to Thompson Ramo Wooldridge Inc. Signal display systems. 3,128,454, 4-7-64, Cl. 340-174.1.
- Smolzer, Jack C., to The Bunker-Ramo Corp. Register monitor. 3,156,815, 11-10-64, Cl. 235-164.
- Smolzer, Jack C., and E. E. Rech, to Thompson Ramo Wooldridge Inc. Shift register with input memory converting logic level signals to positive or negative clock pulses. 3,119,031, 1-21-64, Cl. 307-88.5.
- Smeulders, Wouter, to North American Phillips Co., Inc. Circuit arrangement for synchronizing a local oscillator with the aid of a phase discriminator. 3,127,570, 3-31-64, Cl. 331-20.
- Smeykal, Karl, W., Pritzkow, H., Knopel, S., Unger, and K. Moll, to VEB Leuna-Werke Walter Ulbricht. Process for the isomerization of xylene. 3,119,886, 1-28-64, Cl. 260-668.
- Smialowski, Antoni J., to National Research Council. Haemostatic clamp. 3,126,005, 3-24-64, Cl. 128-325.
- Smidt, Jurgen, W., Hafner, R., Sedmeier, R., Jira, and R. Ruttiger, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for the production of aldehydes and ketones. 3,131,223, 4-28-64, Cl. 260-597.
- Smidt, Jurgen, R. Ruttiger, H. Kojer, and R. Sieber, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for the production of 3-chlorobutanone-2 and butanone. 3,144,488, 8-11-64, Cl. 260-597.
- Smidt, Jurgen, R. Sieber, W. Hafner, and R. Jira, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for the production of carbonyl groups in organic compounds. 3,153,083, 10-13-64, Cl. 260-465.1.
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- Smigo, William: See—
- Loch, Joseph F., De Mott, and Smigo. 3,119,000.
- Smiley, Seymour H., D. C. Brater, and C. C. Littlefield, to United States of America, Atomic Energy Commission. Pretreatment of uranium dioxide to promote its conversion to uranium tetrafluoride. 3,150,924, 9-29-64, Cl. 23-14.5.
- Smiley, William D., and A. G. Wilder, to Jersey Production Research Co. Composite materials containing cemented carbides. 3,149,411, 9-22-64, Cl. 29-182.8.
- Smille, C. M., and Co.: See—
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- Smille, Charles M., to C. M. Smille and Co. Core mold vent plug. 3,160,928, 12-15-64, Cl. 22-13.
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- Smirl, Richard L., to Borg-Warner Corp. Driven plate assembly. 3,138,012, 6-23-64, Cl. 64-27.
- Smirl, Richard L., to Borg-Warner Corp. Anti-spln device for transmission mechanism. 3,139,764, 7-7-64, Cl. 74-339.
- Smirl, Richard L., to Borg-Warner Corp. Leveling valve mechanism. 3,162,433, 12-22-64, Cl. 267-65.
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- Ramsey, Paul W., and Zimmermann. 3,147,362.
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- Smith, Albert L. Lawn edge trimmer. 3,144,084, 8-11-64, Cl. 172-15.
- Smith, Alexander M., II, to Chatham Mfg. Co. Decorative needle fabric. 3,117,005, 1-14-64, Cl. 161-64.
- Smith, Alexander M., II. Needle board for needle loom. 3,122,815, 3-3-64, Cl. 28-4.
- Smith, Alexander M., II, to Chatham Mfg. Co. Needle loom. 3,132,406, 5-12-64, Cl. 28-4.
- Smith, Alexander M., II, to The Fiberwoven Corp. Non-woven fabric and process of making same. 3,154,462, 10-27-64, Cl. 161-154.
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- Smith, Arthur J. Air gap fitting for drainage systems. 3,158,169, 11-24-64, Cl. 137-216.
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- Smith, Bonnie, Jr., now by change of name Bonne Smith, Jr. Flying solarthermic toy airship. 3,153,878, 10-27-64, Cl. 46-89.
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- Garson, Stanley A., and Smith. 3,155,419.
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- Smith, Charles B., and V. O. Wilkerson, to International Business Machines Corp. High-speed printing apparatus. 3,142,840, 7-28-64, Cl. 346-74.
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- Smith, Charles D., and C. J. Anderson; said Anderson assor. to said Smith. Self cleaning spacebad for type casting machines. 3,127,983, 4-7-64, Cl. 199-67.
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- Smith, Charles F., to National Dairy Products Corp. Treatment of egg albumen. 3,161,527, 12-15-64, Cl. 99-210.
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- Smith, Charlie T., to May Hosiery Mills. Socks and apparatus and method for producing the same. 3,143,869, 8-11-64, Cl. 66-48.
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- Smith, Chester E., Jr., to Hercules Powder Co. Cross-linking polymeric materials. 3,141,867, 7-21-64, Cl. 260-85.1.
- Smith, Chester F. Gasoline economizer. 3,157,171, 11-17-64, Cl. 123-119.
- Smith, Clayton E., and A. G. Kendall, to Howe Richardson Scale Co. Electrical systems. 3,153,459, 10-20-64, Cl. 177-15.
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- Mitchell, Reid L., Hamilton, and Smith. 3,148,106.
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- Smith, Donald E., to United States of America, Army. Detonation block fuze mount. 3,121,393, 2-18-64, Cl. 102-49.
- Smith, Donald E., to Air Reduction Co., Inc. Separation of air into nitrogen, oxygen, argon, etc. 3,123,457, 3-3-64, Cl. 62-28.1.
- Smith, Donald F., to United States of America, Army. Towing and lifting yoke. 3,148,908, 9-15-64, Cl. 294-67.
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- Smith, Donald L., to Air Reduction Co., Inc. Separation of air into nitrogen, oxygen and argon. 3,127,260, 3-31-64, Cl. 62-22.
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- Smith, Donald P. Poultry shackle. 3,145,416, 8-25-64, Cl. 17-44.1.
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- Smith, Edgar J., to General Precision, Inc. Analog to digital converter and function generator. 3,122,733, 2-25-64, Cl. 340-347.
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- Smith, Edmund G., to Equipment Development Co., Inc. Sludge thickener. 3,117,927, 1-14-64, Cl. 210-326.
- Smith, Edward B. Shopping bag with protective cover. 3,145,908, 8-25-64, Cl. 220-54.
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- Smith, Ellsworth M., to The Brush Beryllium Co. Method of heat treating beryllium copper alloys. 3,138,493, 6-23-64, Cl. 148-11.5.
- Smith, Ellsworth M., to The Brush Beryllium Co. Beryllium-bronze alloy. 3,150,969, 9-29-64, Cl. 75-153.
- Smith, Elmer E., to Flex-O-Glass, Inc. Protective holder for dispensing cartons. 3,151,793, 10-6-64, Cl. 225-42.
- Smith, Eric T., and G. W. W. Stevens, to Eastman Kodak Co. Rapid processing of photographic materials including the use of phosphate ions as antistaining agents. 3,132,943, 5-12-64, Cl. 96-61.

- Smith, Eric T., and L. A. Williams, to Eastman Kodak Co. Stability of rapid-processed photographic prints. 3,137,574, 6-16-64, Cl. 96-61.
- Smith, Ernest, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,147,194, 9-1-64, Cl. 176-77.
- Smith, Ernest F.: See—
- Barragato, Achille R., and Smith. 3,152,815.
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- Smith, Francis C. Snow melting machine. 3,126,883, 3-31-64, Cl. 126-343.5.
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- Smith, Frank E. Process and apparatus for the electrolytic production of high-purity iron. 3,118,826, 1-21-64, Cl. 204-113.
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- Smith, Gail B. Method of medicine administration and device therefor. 3,127,891, 4-7-64, Cl. 128-347.
- Smith, Geoffrey, and H. Meyer. Print unit. 3,147,090, 9-8-64, Cl. 101-79.
- Smith, George, to Molins Machine Co. Ltd. Tobacco-manipulating machines. 3,127,007, 3-31-64, Cl. 198-193.
- Smith, George A.: See—
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- Smith, George E., to Bell Telephone Laboratories, Inc. Thermoelectric refrigerator. 3,136,134, 6-9-64, Cl. 62-3.
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Spotholz, Clifford H.: See—

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Spradlin, Erdman O. Typewriter ribbon spool construction. 3,145,823, 8-25-64, Cl. 197-175.

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Spragg, Harry, to Markham & Co. Ltd. Crushing apparatus. 3,143,304, 8-4-64, Cl. 241-186.

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Reason, Richard E., Rawstron, and Spragg. 3,160,237.

Sprague, Clyde H., and W. Seamone, to United States of America, Navy. Planetary transmission. 3,136,180, 6-9-64, Cl. 74-768.

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Clement, Warren J. 3,131,337.

Desrosiers, Albert J. 3,119,955.

Fabrieus, John H., Prokopowicz, and Fisher. 3,133,338.

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Schla, Alvin L., and England. 3,150,301.

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Sprague, Gordon V., Jr., to United Shoe Machinery Corp. Machines for forming outsole-heel units. 3,157,898, 11-24-64, Cl. 12-16.2.

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Sprague, John L., and O. J. Wied, to Sprague Electric Co. Silicon capacitor. 3,149,399, 9-22-64, Cl. 29-25.42.

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Sprague, Milton G. Circular saw. 3,133,533, 5-19-64, Cl. 125-15.

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Sprague, Robert H., and J. A. Stewart, to Horizons Inc. Photographic process and composition including leuco triphenylmethane dyes. 3,121,632, 2-18-64, Cl. 96-48.

Sprague, Robert H., and P. W., to Horizons Inc. Process of making print-out images with cyanine dye bases and styryl dye bases. 3,121,633, 2-18-64, Cl. 96-48.

Sprague, Robert H., and J. A. Stewart, to Horizons Inc. Printout process and leuco bases of triphenyl methane dyes used therein. 3,140,949, 7-14-64, Cl. 96-48.

Sprague, Robert W., and R. C. Evans, to North American Aviation, Inc. Storable propellant compositions. 3,158,995, 12-1-64, Cl. 60-35.4.

Sprague, Stanley R., and R. G. Cunningham, to Shell Oil Co. Power transmission fluids. 3,153,632, 10-20-64, Cl. 252-75.

Sprague, Theodore S., to The Babcock & Wilcox Co. Horizontal vapor generating unit. 3,130,713, 4-28-64, Cl. 122-32.

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Spraul, Joseph R., L. L. Peart, and E. A. Greer, to Rheem Mfg. Co. Method and apparatus for applying a material to an object. 3,132,967, 5-12-64, Cl. 118-52.

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Spreenwers, Harm R., to Onderzoekingsinstituut Research, N.V. Screw extruder for mixing plastic material with a pigment. 3,148,412, 9-15-64, Cl. 18-12.

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Springate, Maurice S., to Aviation Developments Ltd. Apparatus for transferring workpieces in machine tool. 3,124,255, 3-10-64, Cl. 214-1.

Springer, Amos D., to Alad Oil Tool, Inc. Liner hanger and setting tool. 3,158,201, 11-24-64, Cl. 166-120.

Springer, Charles E. Toilet seat cover clamp. 3,116,527, 1-7-64, Cl. 24-81.

Springer, Clarence A. Toilet unit. 3,149,346, 9-22-64, Cl. 4-135.

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- Springer, George, and H. A. Cake pan stand. 3,126,948, 3-31-64, Cl. 165-67.
- Springer, Hans: See—
Phaneuf, Edgar A., and Springer. 3,142,852.
- Springer, Hans, to General Electric Co. Toothbrush storage case and battery charger. 3,143,697, 8-4-64, Cl. 320-2.
- Springer, Hans, and E. A. Phaneuf, to General Electric Co. Slidable switch mechanism for an electric toothbrush. 3,156,804, 11-10-64, Cl. 200-157.
- Springer, Henrietta A.: See—
Springer, George, and H. A. 3,126,948.
- Springer, Raymond L., to The Auto Sun Products Co. Anchor assembly for seat belt. 3,127,652, 4-7-64, Cl. 24-165.
- Springer, Raymond W. Ball and socket joint. 3,125,364, 3-17-64, Cl. 287-90.
- Springer, William E., to Robbins & Myers, Inc. Filter bag and suspension for dust collecting apparatus. 3,131,044, 4-28-64, Cl. 55-378.
- Springer, William E., to Robbins & Myers, Inc. Clamping latch. 3,158,908, 12-1-64, Cl. 20-16.
- Springfield Cast Products, Inc.: See—
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- Sprosty, Allan E. Heat sealable container. 3,128,936, 4-14-64, Cl. 229-62.
- Sproule, Robert S., to Dominion Engineering Works Ltd. Runner blade servo system for turbines. 3,130,935, 4-28-64, Cl. 253-31.
- Sproule, Robert S., to Dominion Engineering Works Ltd. Kaplan turbine (single-acting pipeless runner blade servo). 3,146,990, 9-1-64, Cl. 253-31.
- Sproule, Robert S., L. M. Boyd, and F. Kanger, to Dominion Engineering Works Ltd. Double acting pipeless runner blade servo with air bias for fast opening. 3,146,991, 9-1-64, Cl. 253-31.
- Spruill, Wayne T.: See—
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- Spruill, Wayne T., to Joy Mfg. Co. Construction element. 3,144,881, 8-18-64, Cl. 138-117.
- Sprout, Waldron & Co., Inc.: See—
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- Soars, Harold M., Jr. 3,117,343.
- Sprowl, John D., to Kaiser Aluminum & Chemical Corp. Aluminum base alloy. 3,136,632, 6-9-64, Cl. 75-147.
- Spruce Falls Power and Paper Co., Ltd.: See—
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- Sprung, Douglas J., and C. W. Vassar, to Mobile Pipe Corp. Apparatus for continuous forming of metal shapes. 3,145,758, 8-25-64, Cl. 153-54.
- Sprung, Murray M., to General Electric Co. Polymeric reaction product of an organosilane-tetrol and phenylboronic acid. 3,161,613, 12-15-64, Cl. 260-46.5.
- Spruth, Wilhelm, to International Business Machines Corp. Gate circuits utilizing light sources and photoconductors. 3,145,301, 8-18-64, Cl. 250-209.
- Spry, Robert A.: See—
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- Spurgeon, Richard C., to R. C. Spurgeon, and G. E. Robertson, as tenants in common. Method of producing hose. 3,120,049, 2-4-64, Cl. 28-72.
- Spurgeon, Richard C., to said Spurgeon, and G. E. Robertson. Method of stocking production and stocking. 3,120,051, 2-4-64, Cl. 28-76.
- Spurgeon, Richard C. Pruning shears. 3,146,527, 9-1-64, Cl. 30-254.
- Spurlin, Harold M.: See—
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- Spurlin, William V., to Link-Belt Co. Rotary tumbler. 3,129,536, 4-21-64, Cl. 51-163.
- Spurlin, William V., and B. E. West, to Link-Belt Co. Aluminum leaf spring spacer. 3,155,853, 11-3-64, Cl. 310-29.
- Spurlock, Charles W. Desiccant cartridge. 3,127,257, 3-31-64, Cl. 55-309.
- Spurrell, Ralph H.: See—
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- Square D Co.: See—
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- Butler, De Forest D. 3,137,807.
- Clifford, Joseph. 3,159,048.
- Duvall, Harold A. 3,159,771.
- Gemmell, David. 3,160,731.
- Gribble, Joseph J. 3,146,325.
- Kussy, Frank, Stanback, and Garton. 3,134,050.
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- Square D Co.: See—Continued
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- Rys, Tadeusz J., Butler, and Stanback. 3,133,781.
- Stanback, Harris I. 3,133,779.
- Stanback, Harris I., and Zubaty. 3,134,000.
- Wolf, Clement W. 3,125,398.
- Zeller, Josef J. 3,163,725.
- Zubaty, Martin V., and Steele. 3,133,999.
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- Squiler, Lelan R., and R. H. Steidl, to The Boeing Co. Axonometric computer slide rule. 3,135,465, 6-2-64, Cl. 235-50.
- Squillaro, Jerome C., and H. D. Tolj, to United States of America, Navy. Transistor linear peak detector for signals having wide dynamic range. 3,145,345, 8-18-64, Cl. 329-101.
- Squire, Robert K., to Superior Scaffold Co. Ground handling system for aircraft. 3,162,404, 12-22-64, Cl. 244-114.
- Squires, Sam G. Weather-proof window guide. 3,135,027, 6-2-64, Cl. 20-52.
- Squires, Sydney L.: See—
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- Sreb, Jules H.: See—
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- Stadt, Harold E., to The Dow Chemical Co. Method of establishing communication between wells. 3,129,761, 4-21-64, Cl. 166-42.
- Staaf, Gustav A., and S. A. Molin, to Alstermo Bruks Aktiebolag. Former roller with cutting knife. 3,130,886, 4-28-64, Cl. 225-103.
- Staak, Julius H., to General Electric Co. Linear actuating arrangement. 3,153,942, 10-27-64, Cl. 74-425.
- Staar, Marcel J. H. Gramophone record distributing devices for gramophone record changers. 3,122,371, 2-25-64, Cl. 274-10.
- Staar, Marcel J. H., to Usines Gustave Staar, S.A. Dictating machine drive mechanism. 3,124,360, 3-10-64, Cl. 274-4.
- Stabe, Heinrich, and B. Hamburger, to Hartmann & Braun Aktiengesellschaft. Viscometers. 3,122,914, 3-3-64, Cl. 73-59.
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- Stabius Industrie- und Handelsgesellschaft m.b.H.: See—
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- Stableford, John L. Foldable rocking chair. 3,154,344, 10-27-64, Cl. 297-18.
- Stabs, Richard C. Stripper for wire cable covering. 3,162,945, 12-29-64, Cl. 30-91.
- Stacey, George T.: See—
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- Stacey, Hugh J.: See—
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- Stacey, Hugh J., to Parker-Hannifin Corp. Detent release for flow control valves. 3,132,608, 5-12-64, Cl. 137-624.27.
- Stacey, Hugh J., to Parker-Hannifin Corp. Dual pump system and control valve assembly therefor. 3,146,593, 9-1-64, Cl. 60-52.
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- Stack, Emmet G. Method of constructing multi-arch coreless flush doors. 3,132,981, 5-12-64, Cl. 156-163.
- Stack, Emmet G. Method of manufacturing bow-shaped panels. 3,140,516, 7-14-64, Cl. 20-15.
- Stack, Emmet G. Vertical louver doors. 3,151,665, 10-6-64, Cl. 160-206.
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- Stack, Thomas N., to Minnesota Mining and Mfg. Co. Radiant gas burner. 3,155,142, 11-3-64, Cl. 158-99.
- Stack, Vernon T., E. E. Knox, to the Gordon Co. Yarn clamping and severing mechanism for knitting machines. Re. 25,584, 5-26-64, Cl. 66-140.
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- Campbell, Dudley H. 3,158,698.
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- Stacy, Carl J., to Phillips Petroleum Co. Measurement of fluorescent materials. 3,151,204, 9-29-64, Cl. 88-14.
- Stacy, Robert G., to The Budd Co. Disk brakes for railway cars. 3,143,191, 8-4-64, Cl. 188-59.
- Stacy, Stanley L., D. I. Flower, and F. A. Calabro, to Ethicon, Inc. Sterile package. 3,136,418, 6-9-64, Cl. 206-63.3.

- Stacy, Thomas F., to The French Oil Mill Machinery Co. Pilot light system. 3,147,466, 9-1-64, Cl. 340-252.
- Stad, Andrew N.: See—
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- Stadler, Hans: See—
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- Stadler, Hans K. L.: See—
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- Stadler, Henry L.: See—
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- Staesch, Maria: See—
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- Staeuble, Max, to Ciba Corp. Vat dyestuffs containing halo-pyrimidine substituents. 3,126,382, 3-24-64, Cl. 260-256.4.
- Staeuble, Max, to Ciba Ltd. Reaction product of monoamino-dibenzanthrone and two moles of a hydroxyalkylamine. 3,127,422, 3-31-64, Cl. 260-354.
- Staeuble, Max, K. Weber, and P. Hugelshofer, to Ciba Ltd. Sulfatoalkylamine derivatives of triazine and pyrimidine vat dyestuff. 3,157,653, 11-17-64, Cl. 260-249.
- Staeuble, Max, and K. Weber, to Ciba Ltd. Process for dyeing high-molecular organic products with pigment dyestuffs. 3,163,551, 12-29-64, Cl. 106-193.
- Staffel, Wilhelm, to C. A. Weidmuller K.G. Connector for electrical conductors. 3,159,730, 12-1-64, Cl. 200-133.
- Stafford, A. G., Co., The: See—
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- Stafford, Jehu D.: See—
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- Stafford, John A., and R. L. St. John, to Schlumberger Well Surveying Corp. Galvanometric recording systems. 3,142,528, 7-25-64, Cl. 346-109.
- Stafford, John N., to Stafford Patents and Holdings Ltd. Linking and nesting units. 3,141,699, 7-21-64, Cl. 297-239.
- Stafford, John N., to Stafford Patents and Holdings Ltd. Structural elements for beds. 3,160,895, 12-15-64, Cl. 5-286.
- Stafford, Milton C.: See—
Kron, Harold O., Stafford, and Howell. 3,151,502.
- Stafford Patents and Holdings Ltd.: See—
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- Stafford, John N. 3,160,895.
- Stage, Jack W. Safety lock. 3,143,368, 8-4-64, Cl. 292-198.
- Stahl, Egon, to C. Desaga G.m.b.H. Nachf., Erich Fecht. Applicator apparatus. 3,145,410, 8-25-64, Cl. 15-510.
- Stahl, Helmut, and G. E. Wiest, deceased (by G. Wiest, heir and legal representative), to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of caprolactam. 3,150,067, 9-22-64, Cl. 204-158.
- Stahl, Nils E. J., and O. U. Larsson, to Almex, AB. Arrangement in receipt-issuing machines for the marking of tickets. 3,116,685, 1-7-64, Cl. 101-66.
- Stahl, William F. Method of forming plastic containers. Re. 25,624, 7-28-64, Cl. 264-230.
- Stahl, William L.: See—
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- Stahl-Armaturen Slepman G.m.b.H., K.G.: See—
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- Stahlberg, Gosta E., to Regulator Aktiengesellschaft. Device for measuring the moisture temperature. 3,157,049, 11-17-64, Cl. 73-335.
- Stähle, Martin. Pump impeller. 3,156,190, 11-10-64, Cl. 103-88.
- Stahlecker, Fritz. Spindle bearing. 3,127,223, 3-31-64, Cl. 308-152.
- Stahlecker, Fritz, and H. Belt drive for spindles of spinning or twisting machines. 3,120,732, 2-11-64, Cl. 57-105.
- Stahlecker, Hans: See—
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- Stahlecker, Hans. Movable bearing for spinning or twisting spindles. 3,149,889, 9-22-64, Cl. 308-156.
- Stahlecker, Wilhelm. Two-belt drawing mechanism for spinning machines. 3,120,681, 2-11-64, Cl. 19-252.
- Stahlecker, Wilhelm, and S. Kemmler. Top roller mounting in a spinning machine. 3,125,383, 3-17-64, Cl. 308-174.
- Stähler, Gerhart: See—
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- Stahler, Ylo E., to United States of America, Air Force. Time interval indicator having two lengths of tape synchronously driven in opposite directions across a display surface such that the two approaching ends of the two tapes indicate passage of a time interval. 3,122,730, 2-25-64, Cl. 340-309.1.
- Stahlin Bros. Fibre Works, Inc.: See—
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- Stahlwerke Brueninghaus G.m.b.H.: See—
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- Stahly, Eldon E., $\frac{3}{4}$ to O. W. Burke, Jr., and $\frac{1}{4}$ to Eastman Kodak Co. Compound N,N'-di-(3,5,5-trimethylcyclohexyl)-p-phenylenediamine. 3,126,412, 3-24-64, Cl. 260-577.
- Stahly, Eldon E., $\frac{3}{4}$ to O. W. Burke, Jr., and $\frac{1}{4}$ to Eastman Kodak Co. Antiozonants and antiozonant compositions for elastomers. 3,157,615, 11-17-64, Cl. 260-45.9.
- Stahly, Eldon E., $\frac{3}{4}$ to O. W. Burke, Jr., and $\frac{1}{4}$ to Eastman Kodak Co. P-phenylenediamine stabilizers for elastomers and compositions containing the same. 3,163,616, 12-29-64, Cl. 260-28.5.
- Stahly, Frederick A., and K. C. Herr, to Eastman Kodak Co. Superior binders for photoconductive layers containing zinc oxide. 3,132,941, 5-12-64, Cl. 96-1.
- Stahmer, Bernhard. Jet-balloon aircraft. 3,120,932, 2-11-64, Cl. 244-24.
- Stahmer, Bernhard. Helicopter mounted parachute. 3,138,348, 6-23-64, Cl. 244-17.15.
- Stahmer, Bernhard. Boat-forming machine and jig. 3,153,796, 10-27-64, Cl. 9-6.5.
- Stahn, Georg F.: See—
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- Stahnke, Edward J.: See—
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- Stahr, Donald F.: See—
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- Stalger, Roger P., G. F. Schlaudecker, and E. B. Miller, to Maurice Chemical Co. Process for preparing esters of anthranilic acid. 3,123,631, 3-3-64, Cl. 260-471.
- Stainbrook, Forest A. Bird feeder. 3,124,103, 3-10-64, Cl. 119-51.
- Stainbrook, Hubert L., to Your Pleasure Corp. Combination clothes and hair dryer. 3,157,475, 11-17-64, Cl. 34-91.
- Stainbrook, Theodore S. Mooring line retaining device. 3,151,595, 10-6-64, Cl. 114-230.
- Stainer, John T.: See—
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- Staines, Alfred J.: See—
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- Stainforth, Peter T.: See—
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- Hutchins, Peter D. T., and Stainforth. 3,162,331.
- Stair, Henry H., to Consolidated Electrodynamics Corp. Frequency compensated amplifier for magnetic tape playback. 3,160,824, 12-8-64, Cl. 330-28.
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- Stanley, Richard B., and E. Brinkley, to The Kartridg Pak Co. Apparatus for filling and sealing aerosol containers. 3,152,429, 10-13-64, Cl. 53-88.
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- Stansfield, James R., to Hilger & Watts Ltd. Focussing arrangement for X-ray tubes. 3,143,679, 8-4-64, Cl. 313-57.
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- Stewart, William R. and D. B., and J. Butler, to Wm. R. Stewart & Sons (Hackmakers) Ltd. Staves. 3,123,866, 3-10-64, Cl. 19-97.
- Stewart, William S. Rotary saw control means. 3,138,183, 6-23-64, Cl. 145-120.

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Stier, Kurt L. Swim pool wall panel structure. 3,124,905, 3-17-64, Cl. 50-100.

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Stilz, Walter, H. Pommer, F. Schmidt, H. Biczysko, and H. Fessmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polyamides stabilized with styryl benzenes or stilbenes. 3,163,621, 12-29-64, Cl. 260-45.7.

Stilz, Walter, and H. Pommer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Unsaturated carboxylic acid esters containing phosphorus. 3,163,669, 12-29-64, Cl. 260-461.

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Stimson, Allen G., to Eastman Kodak Co. Photographic light measuring device. 3,147,680, 9-8-64, Cl. 95-10.

Stine, Glynn L., to American Metal Products Co. Seat cushion and spring construction. 3,127,220, 3-31-64, Cl. 297-472.

Stine, Howard E., Jr., to AMP Inc. Apparatus for making electrical connections. 3,151,389, 10-6-64, Cl. 29-203.

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Stine, Laurence O., L. C. Hardison, and N. H. Scott, to Universal Oil Products Co. Continuous treatment of polluted water. 3,133,016, 5-12-64, Cl. 210-3.

Stine, Laurence O., J. G. Wenner, and D. J. Ward, to Universal Oil Products Co. Continuous fractional crystallization process. 3,154,395, 10-27-64, Cl. 62-58.

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Stines, Millie E. Wire screen panel and strap construction for purses, belts and the like. 3,133,576, 5-19-64, Cl. 150-33.

Stinger, Henry J., to E. I. du Pont de Nemours and Co. Electromagnetic apparatus. 3,149,372, 9-22-64, Cl. 18-5.

Stinis, Anthony. Sky writing apparatus. 3,151,410, 10-6-64, Cl. 40-213.

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Stirton, Alexander J., R. G. Bistline, Jr., J. K. Well, and W. C. Ault, to United States of America, Agriculture. Salts of a-sulfonated fatty acid esters. 3,128,294, 4-7-64, Cl. 260-400.

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Stites, Loren H. Resilient operating means for electric switch. 3,119,915, 1-28-64, Cl. 200-163.

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Stockard, Jesse L., Jr., to Hughes Tool Co. Method of making drilling bits. 3,127,794, 4-7-64, Cl. 76-108.

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Stocker, Arthur C., F. Wendzel, W. Rolke, and K. G. Kaufmann, to United States of America, Navy. High speed rotary switch with contact cleaning means. 3,141,073, 7-14-64, Cl. 200-24.

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Stockman, Richard, to Combustion Engineering, Inc. Rotary heat exchange apparatus with support therefor. 3,144,903, 8-18-64, Cl. 165-7.

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Stockton, George H., and N. C. Yew, to Ampex Corp. Method for manufacturing a hall effect readout device. 3,149,407, 9-22-64, Cl. 29-155.5.

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Stoffel, Paul J., and D. J. Beaver, to Monsanto Co. Nitro-alkyl esters of hydrocarbylcarboxylic acids as fungicides. 3,149,031, 9-15-64, Cl. 167-22.

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Stohlberg, Travers, to Corry Jamestown Corp. Typewriter supporting shelf. 3,140,135, 7-7-64, Cl. 312-208.

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Stoker, Donald J., L. S. Mims, and S. Siegel, to North American Aviation, Inc. Steam superheat boiling water nuclear reactor. 3,150,052, 9-22-64, Cl. 176-54.

Stokes, Agnes B. Portable appliance for delineating a playing field for the game of hopscotch. 3,136,545, 6-9-64, Cl. 273-1.

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Stoller, Hugh M., deceased, by M. M. Stoller, executrix, to United States of America, Army. Self-regulating power supply. 3,125,027, 3-17-64, Cl. 102-70.2.

Stoller, Hugh M., deceased, by M. M. Stoller, executrix, to United States of America, Army. Dynamo-electric machine construction. 3,130,337, 4-21-64, Cl. 310-258.

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Stollerman, Harry. Spectacle lenses for unilateral aphakia. 3,140,338, 7-7-64, Cl. 88-54.

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Stoltman, Donald D., and T. R. Beveridge, to General Motors Corp. Vehicle road speed control system. 3,125,178, 3-17-64, Cl. 180-82.1.

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Stone, Allen W., and W. H. Chaplin. Protective covering for scaffolding. 3,121,470, 2-18-64, Cl. 182-129.

Stone, Alton H. Birdhouse. 3,163,152, 12-29-64, Cl. 119-23.

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Stone, Cecil C., to United States of America, Atomic Energy Commission. Method and apparatus for sealing tubes. 3,135,856, 6-2-64, Cl. 219-124.

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Stone, Guthrie B. Potato ricer. 3,122,986, 3-3-64, Cl. 99-246.

Stone, Guthrie B. Pulley hub with crowned outer face. 3,140,621, 7-14-64, Cl. 74-230.3.

Stone, Herman J., to The Independent Nail Corp. Shoe heel and heel reinforcing pin attached tread element therefor. 3,134,180, 5-26-64, Cl. 36-36.

Stone, Horace A., to Mollus Machine Co. Ltd. Mechanism for joining webs of material. 3,138,341, 6-23-64, Cl. 242-58.4.

Stone, J., & Co. (Deptford) Ltd.: See—
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Leigh, Bertram R., Thomas, and Lack. 3,139,515.

Stone, Jack T., and A. J. Lullette, to Whitaker Corp. Process of mixing glass flakes with a normally liquid resin in frozen, comminuted form. 3,151,095, 9-29-64, Cl. 260-37.

Stone, Jim E. Feed trough. 3,121,418, 2-18-64, Cl. 119-61.

Stone, John D.: See—
Cunningham, David R., Somers, Stone, and Hartman. 3,141,394.

Stone, Joseph R.: See—
Murray, Thomas C., and Stone. 3,117,333.

Murray, Thomas C., Stone, and Reese. 3,149,356.

Murray, Thomas C., Stone, and Reese. 3,150,003.

Murray, Thomas C., Stone, and Reese. 3,150,004.

Stone, Joseph J., Jr., to A. B. Dick Co. Electrostatic writing means. 3,136,917, 6-9-64, Cl. 315-12.

Stone, Joseph J., Jr., to A. B. Dick Co. Electrostatic printing tube having unique anode structure. 3,157,811, 11-17-64, Cl. 313-73.

Stone, Kenneth C.: See—
Greenhalgh, Collin W., and Stone. 3,127,269.

Stone, Lawrence H., to Pennsalt Chemicals Corp. Centrifuge having automatic means for controlling peripheral openings. 3,160,589, 12-8-64, Cl. 233-20.

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Scalo, Ralph F., and Stone. 3,120,215.

Stone, Leonard R., T. J. Radcliffe, and G. W. Sower, to Republic Steel Corp. Blast furnace stock level control comprising radioactive source and detector. 3,133,191, 5-12-64, Cl. 250-43.5.

Stone, Llewellyn E., and N. Hilt: said Hilt assor. to said Stone. Self-adjusting brake. 3,136,391, 6-9-64, Cl. 188-79.5.

Stone, Louis A., to Philip Morris Inc. Razor blade changing mechanism. 3,151,738, 10-6-64, Cl. 206-16.

Stone, Orison W., and E. P. Ploppo, to Riegel Paper Corp. Boxboard container. 3,124,299, 3-10-64, Cl. 229-81.

Stone, Richard S., to Anderson Controls, Inc. Solenoid having a rotatable back stop for the plunger. 3,117,257, 1-7-64, Cl. 317-186.

Stone, Richard W., A. W. Ackerman, and C. L. Nyquist, to Publisher's Vending Services, Inc. Book vending machine. 3,160,315, 12-8-64, Cl. 221-127.

Stone, Robert R., Jr., to United States of America, Navy. Coordinate system frequency synthesizer. 3,119,078, 1-21-64, Cl. 331-38.

Stone, Robert R., Jr., to United States of America, Navy. FSK keying system embodying phase coherence. 3,158-810, 11-24-64, Cl. 325-163.

Stone, Robert R., Jr., to United States of America, Navy. Narrow band FSK system employing stabilized frequency control. 3,162,812, 12-22-64, Cl. 325-163.

Stone, Robert R., Jr., and H. F. Hastings. Digit control frequency synthesizer. 3,125,729, 3-17-64, Cl. 331-30.

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Gimes, William H., Scroop, Shapleigh, and Stone. 3,146,606.

Stone, W. E., & Co., Inc.: See—
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Stonebanks, David A., to Continental Can Co., Inc. Multiply fibre board containers. 3,159,326, 12-1-64, Cl. 229-14.

Stoneberg, Fred, and R. Dorweiler. Pressure control for flame cutting torches. 3,161,226, 12-15-64, Cl. 158-27.4.

Stonecipher, Ernest M. Electric welding torch. 3,151,232, 9-29-64, Cl. 219-139.

Stonehouse, Albert J.: See—
Beaver, Wallace W., Paine, and Stonehouse. 3,150,970.

Beaver, Wallace W., Paine, and Stonehouse. 3,150,975.

Stonehouse, Albert J., and R. M. Paine, to The Brush Beryl-Hum Co. Intermetallic compositions and bodies. 3,150,968, 9-29-64, Cl. 75-150.

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Azorosa, Julian L., and Stoner. 3,161,538.

Stoner Investments Inc.: See—
Phillips, William C. 3,152,677.

Stoner, Jacob G.: See—
Rohde, Robert D., and Stoner. 3,131,640.

Stoner, Joseph W. Process and apparatus for regenerating ion-exchange material in a water softening system. 3,154-484, 10-27-64, Cl. 210-35.

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Wetzel, Theodore A., and Stoner. 3,127,613.

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Mann, Jabez H., Herr, Pifer, and Stoner. 3,118,589.

Stonkey, Kenneth W. Recuperator. 3,129,931, 4-21-64, Cl. 263-20.

Stonkey, Stanley D., to Corning Glass Works. Method of forming metallic films on glass. 3,135,046, 6-2-64, Cl. 29-42.

Stonkey, Stanley D., to Corning Glass Works. Low expansion glass ceramic and method of making it. 3,157,522, 11-17-64, Cl. 106-52.

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Storchheim, Samuel, to De Vitre-Teja Industries Co. Process for strip cladding by hot rolling of particulate material. 3,142,560, 7-28-64, Cl. 75-208.

Storchheim, Samuel, to Alloys Research & Mfg. Corp. Method of making electrical resistance iron-aluminum alloys. 3,144,330, 8-11-64, Cl. 75-226.

Storchheim, Samuel, to Alloys Research & Mfg. Corp. Method of fabricating nuclear fuel elements and the like. 3,150,973, 9-29-64, Cl. 75-208.

Storchheim, Samuel, to Alloys Research & Mfg. Corp. Process for preventing oxidation of hot worked parts. 3,152-893, 10-13-64, Cl. 75-223.

Storchheim, Samuel, to Alloys Research & Mfg. Corp. Method of making lead storage battery grids. 3,153,590, 10-26-64, Cl. 75-226.

Storchheim, Samuel, to Alloys Research & Mfg. Corp. Coating metal articles by powdered metals. 3,163,527, 12-29-64, Cl. 75-206.

Stordahl, Donald S. Adjustable variable reciprocating stroke for a power system. 3,137,139, 6-16-64, Cl. 60-52.

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Stork, Edward S., and W. J. Stark, to The National Cash Register Co. Symbol printing control for accounting machines. 3,144,822, 8-18-64, Cl. 101-93.

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Storm, Elbery, and S. Schlaer, to United States of America, Atomic Energy Commission. Nuclear radiation dosimeter using composite filter and a single element filter. 3,130,306, 4-21-64, Cl. 250-83.

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Stormann-Menniger, Helmo, R. Schönbeck, and E. Kloimstein, to Österreichische Stecksstoffwerke Aktiengesellschaft. 3 halogeno pyridazine-6-mercaptopolkanolic acid amides. 3,155,662, 11-3-64, Cl. 260-250.

Stormer, Joseph R., and J. C. Jacobs, to General Motors Corp. Shock absorber with preformed plastic gas cell. 3,123,347, 3-3-64, Cl. 267-1.

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Storp, Klaus, and H. Kleemann, to Laboratorium für Adsorptionstechnik G.m.b.H. Process for the removal of organic sulphur compounds from gases. 3,116,970, 1-7-64, Cl. 23-2.

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Story, Joseph B., to Ethyl Corp. High performance battery. 3,121,028, 2-11-64, Cl. 136-6.

Story, Roger P., to Northern Electric Co. Ltd. Hybrid feedback amplifier. 3,134,080, 5-19-64, Cl. 330-102.

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Green, Rowland P. 3,145,631.

Green, Rowland P. 3,160,398.

Stotler, Harold H.: See—
Engle, Theodore M., and Stotler. 3,154,405.

Stott, Albert M., to United States of America, Army. Thruster. 3,133,468, 5-19-64, Cl. 60-26.1.

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Stotter, Emanuel: See—
Bond, Milton, Stotter, and Weltz. 3,124,944.

Stotter, Ernest. Reflector attachment for fluorescent lighting fixtures. 3,123,301, 3-17-64, Cl. 240-51.11.

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Stotz, Ottmar. Window frame structure. 3,128,509, 4-14-64, Cl. 20-11.

Stoudenmire, Albert W., to Deering Milliken Research Corp. Oscillatable reed structure. 3,143,149, 8-4-64, Cl. 139-48.

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Stough, Gerald D., to Whitehead & Kales Co. Means for anchoring merchandise carrying racks within transport vehicles. 3,116,702, 1-7-64, Cl. 105-369.

Stough, Gerald D., to Whitehead & Kales Co. Bumper strut type rack structure. 3,132,603, 5-12-64, Cl. 105-369.

Stoughton, Lincoln D., J. M. Blocher, Jr., and N. D. Veigel, to United States of America, Atomic Energy Commission. Ceramic coated fuel particles. 3,121,047, 2-11-64, Cl. 176-69.

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Stout, Frank M. Aquarium structural unit. 3,152,574, 10-13-64, Cl. 119-5.

Stout, Harold C.: See—
Brammerlo, Allen A., and Stout. 3,153,183.

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Tye, Joseph F., Foss, and Stout. 3,120,325.

Stout, Thomas M., and C. G. Laspe, to Thompson Ramo Wool-dride Inc. Fail-safe process control system. 3,129,323, 4-14-64, Cl. 235-151.

Stout, William H. Telegraph sending key. 3,160,705, 12-8-64, Cl. 178-108.

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Stouth, Orlin W. Device for spacing furniture from walls. 3,137,090, 6-16-64, Cl. 45-137.

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Stover, William A., and W. S. Briggs, to W. R. Grace & Co. Preparation of cracking catalysts from clay. 3,130,170, 4-21-64, Cl. 252-450.

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Stowell, Nathan J., to J. W. Hughes. Public address apparatus. 3,129,782, 4-21-64, Cl. 181-31.

Stowell, Nathan J., to J. W. Hughes. Housing and mount for loud speakers. 3,129,783, 4-21-64, Cl. 181-31.

Stoy, Arthur, and M. Sivokova. Method of manufacturing colored oriented articles from acrylonitrile polymers and copolymers. 3,121,606, 2-18-64, Cl. 8-55.

Straayer, Cornelius J., and V. C. Oren. Flag pole holder. 3,162,409, 12-22-64, Cl. 248-41.

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Stracey, John, to Questron America, Inc. Container. 3,155-281, 11-3-64, Cl. 222-107.

Strach, Lothar. Jacquard machines. 3,117,599, 1-14-64, Cl. 139-329.

Strachan, Donald R., to E. I. du Pont de Nemours and Co. Lobed filament. 3,156,607, 11-10-64, Cl. 161-177.

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Strack, Erich, and I. Lorenz, to VEB Berlin-Chem. Production of pure D- and L-carnitine-nitrile-chloride. 3,151,149, 9-29-64, Cl. 260-465.5.

Stradella, Giuseppe. Locking device for pressure ring. 3,141,208, 7-21-64, Cl. 24-20.

Stradella, Giuseppe. Eccentric float device for the automatic actuation of the check valve of the breathing pipes of diving masks or the like. 3,141,469, 7-21-64, Cl. 137-41.

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Strader, Don S., to The Frank G. Hough Co. Packing set. 3,132,568, 5-12-64, Cl. 92-78.

Strader, Don S., to The Frank G. Hough Co. Valve for hydraulically operated clutches. 3,139,908, 7-7-64, Cl. 137-625.48.

Strader, Don S., to The Frank G. Hough Co. Ejector mechanism for tractor loaders. 3,140,001, 7-7-64, Cl. 214-140.

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- Strahl, George A., to Crown Zellerbach Corp. Apparatus and method for cast coating sheet material. 3,157,528, 11-17-64, Cl. 117-64.
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- Straight, Edward R., and J. R. Davidson, to Vort Mfg. Corp. Windlass structure. 3,124,851, 3-17-64, Cl. 20-69.
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- Strain, William E., and J. H. Steward, to Multifastener Corp. Clinch nut. 3,152,628, 10-13-64, Cl. 151-41.73.
- Straka, Charles E. Hot and cold water control system. 3,129,723, 4-21-64, Cl. 137-607.
- Straley, James M.: See—
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- Straley, James M., D. J. Wallace, and J. G. Fisher, to Eastman Kodak Co. Para tertiary amino-alkylene-amino-benzylidene malononitriles and functional derivatives thereof. 3,141,018, 7-14-64, Cl. 260-247.2.
- Straley, James M., and D. J. Wallace, to Eastman Kodak Co. Thiazole azo compounds. 3,148,180, 9-8-64, Cl. 260-158.
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- Straley, James M., and D. J. Wallace, to Eastman Kodak Co. Benzothiazole azo compounds containing a dicarboximido radical. 3,161,631, 12-15-64, Cl. 260-158.
- Straley, James M., and J. G. Fisher, to Eastman Kodak Co. Thiazole dyes. 3,161,632, 12-15-64, Cl. 260-158.
- Stralow, Charles K.: See—
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- Stram, George H., to Baker Perkins, Inc. Conveyor trough structure. 3,116,824, 1-7-64, Cl. 198-204.
- Stram, Harold E. Sonic fish bait. 3,142,927, 8-4-64, Cl. 43-42.31.
- Stram, Le Roy, Jr., S. A. Genden, and H. C. Maskey, to Continental Aviation and Engineering Corp. Starting system. 3,124,933, 3-17-64, Cl. 60-39.82.
- Stram, Oscar B., and E. V. Trocky, to Burroughs Corp. Magnetic storage arrangement. 3,156,905, 11-10-64, Cl. 340-174.
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- Strand, Sven H. Bolt structure adapted to be anchored in a bore hole established in rock. 3,124,030, 3-10-64, Cl. 85-24.
- Strandberg, Arne, and Y. A. F. Fagerlund. Collapsible container and support therefor. 3,131,832, 5-5-64, Cl. 222-105.
- Strandberg, Charles F., Jr., to Strandberg Engineering Laboratories, Inc. Automatic grain moisture control. 3,144,029, 8-11-64, Cl. 134-67.
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- Strandrud, Theodore E., to The Boeing Co. Quick release locking element pin. 3,145,441, 8-25-64, Cl. 24-211.
- Strang, Charles D., to Klekkofer Corp. Shift mechanism for outboard propulsion units. 3,136,172, 6-9-64, Cl. 74-378.
- Strang, John M., and D. S. Ritchie, to Barr and Stroud Ltd. Periscopes with compensation for image motion caused by bending. 3,133,143, 5-12-64, Cl. 88-72.
- Strange, Booth B., to Western Geophysical Co. of America. Dual seismic surveying system. 3,133,262, 5-12-64, Cl. 340-7.
- Strange, Edward. Finger ring pencil holder. 3,154,056, 10-27-64, Cl. 120-106.
- Strange, John P.: See—
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- Strange, John W. Trans-illuminated panels. 3,140,831, 7-14-64, Cl. 240-8.16.
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- Strasburger, Le Roy V., and L. F. Glesker, to National Can Corp. Method of dispensing particles of meat to containers in a canning line. 3,126,288, 3-24-64, Cl. 99-187.
- Strasmann, Albert, Prazisions-Werkzeug- und Maschinenfabrik: See—
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- Strasmann, Albert, to Albert Strasmann Prazisions-Werkzeug- und Maschinenfabrik. Milling cutter. 3,129,492, 4-21-64, Cl. 29-103.
- Strassberg, Maximilian. Double-thrust bearing. 3,129,986, 4-21-64, Cl. 308-222.
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- Stratienko, Andrew, to King of Prussia Research and Development Corp. Variable angle mixer drive. 3,120,948, 2-11-64, Cl. 259-111.
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- Stratton, Charles C.: See—
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- Straub, Albert, and J. Schleifer, to Eugen Bauer G.m.b.H. Photographic projector. 3,124,037, 3-10-64, Cl. 88-24.
- Straub, Augustus A., to A. A. Straub Co., Inc. Conveyor space trays. 3,160,405, 12-8-64, Cl. 263-47.
- Straub, Hermann, to Aktiengesellschaft Zahnradfabrik Friedrichshafen. Change speed gear with engine control. 3,118,319, 1-21-64, Cl. 74-472.
- Straub, Hermann, A. Blum, and F. Blalek, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Electromagnetic positive drive clutch. 3,167,260, 11-17-64, Cl. 192-84.
- Straub, Joseph E., to Illinois Tool Works, Inc. Rotary solenoid. 3,136,930, 6-9-64, Cl. 317-182.
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- Straub, Melvin J.: See—
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- Straub, Wolfgang: See—
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- Strauch, Frederic P., Jr., and D. A. Walz, to Collins Radio Co. Synchronized readout system for data tape. 3,123,810, 3-3-64, Cl. 340-174.1.
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- Strauss, Gus, and J. E. Belcher, Jr., to Reynolds Metals Co. Threshold and the like. 3,148,419, 9-15-64, Cl. 20-64.
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- Strauss, Eugen. Color transfer medium and method of producing the same. 3,117,018, 1-7-64, Cl. 117-36.1.
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- Strauss, Howard J.: See—
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- Strauss, Margaret B., to Miles Laboratories, Inc. Water-insoluble whole inhalant complex and method of making same. 3,148,121, 9-8-64, Cl. 167-78.
- Strauss, Margaret B., to Miles Laboratories, Inc. Water-insoluble whole pollen complex and method of making same. 3,148,122, 9-8-64, Cl. 167-78.
- Strauss, Nathan J. Glove. 3,152,338, 10-13-64, Cl. 2-183.
- Strauss, Raymond C. Vehicle controls. 3,145,537, 8-25-64, Cl. 60-54.6.
- Strauss, Raymond C. Starter control. 3,153,943, 10-27-64, Cl. 74-472.

- Strauss, Wennemar, to Dehydtag, Deutsche Hydrierwerke G.m.b.H. Procedure for regeneration of nickel baths. 3,122,490, 2-25-64, Cl. 204-49.
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- Straussler, Nicholas P. S. Vehicle wheel. 3,163,189, 12-29-64, Cl. 152-324.
- Straw, Douglas, to General Aniline & Film Corp. Alkali-soluble resins with non-colloidal silica for precoating diazotype materials. 3,163,535, 12-29-64, Cl. 96-75.
- Straw, Jesse H., and W. F. Aller, to The Sheffield Corp. Method of making a nozzle. 3,150,442, 9-29-64, Cl. 29-157.
- Strawn, L. T. Tool for installing vehicle coil springs. 3,128,542, 4-14-64, Cl. 29-227.
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- Streeter, Jack W., to Clevite Corp. Transistor switching circuits. 3,142,065, 7-21-64, Cl. 346-74.
- Streibinger, Richard R., D. L. Criswell, and W. C. Wintode, to The Bendix Corp. Power turbine speed control for turboprop engines. 3,139,894, 7-7-64, Cl. 137-34.
- Streck, Frederick O., to North American Aviation, Inc. Liquid metal freeze-type seal. 3,129,947, 4-21-64, Cl. 277-22.
- Streck, Charles E., to General Electric Co. Safety systems for fluorescent lamp fixtures. 3,160,784, 12-8-64, Cl. 315-278.
- Strecker, Harold A., to The Standard Oil Co. Process for rejuvenation hydrocracking catalysts. 3,158,563, 11-24-64, Cl. 208-111.
- Street, Eugene L., to Varian Associates. Gaseous discharge control device. 3,136,919, 6-9-64, Cl. 315-39.
- Street, Eugene L., and H. A. Sleeper, to Varian Associates. Microwave transmission gaseous discharge control device having gas reservoir. 3,147,395, 9-1-64, Cl. 313-174.
- Street, Frederick G., to Air Reduction Co., Inc. Capped film resistors. 3,153,219, 10-13-64, Cl. 338-273.
- Street, Grover W. Combined golf ball and golfer's feet positioning device. 3,141,675, 7-21-64, Cl. 273-187.
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- Streeter, Walter E. Device for spinning branches on pipes. 3,131,746, 5-5-64, Cl. 153-21.
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- Streit, Clarence T., to Pines Engineering Co., Inc. Indexing mechanism for reciprocating devices. 3,126,045, 3-24-64, Cl. 153-21.
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- Strlanse, Sabbat J., and M. Havass, to Yardley of London, Inc. Clear lipstick. 3,148,125, 9-8-64, Cl. 167-85.
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- Strick Trailers: See—
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- Strick Trailers of Philadelphia, Pa., a Division of Fruehauf Trailer Co.: See—
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- Tenenbaum, Paul, Bohlen, and Levitt. 3,141,697.
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- Strickland, Gerald R., Johnson, F. L. Horn, and C. B. H. Barlett, to United States of America, Atomic Energy Commission. Method of reprocessing nuclear fuel elements. 3,145,078, 8-18-64, Cl. 23-14.5.
- Strickland, Richard G., and A. J. Wennerstrom, to Aircraft Armaments, Inc. Means for launching projectiles. 3,129,636, 4-21-64, Cl. 89-17.
- Strickland, William A., Jr., to Westinghouse Electric Corp. Mimic positioning controller. 3,144,146, 8-11-64, Cl. 214-135.
- Strickler, Allen, to Beckman Instruments, Inc. Photoelectric immersion probe. 3,141,094, 7-14-64, Cl. 250-218.
- Strickler, Paul D.: See—
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- Strickler, Paul D., and J. W. Pullen, to Spencer Chemical Co. Compositions and methods for controlling soil-dwelling fungi. 3,119,737, 1-28-64, Cl. 167-30.
- Stricklin, John E., and R. R. Mattingly, to Clevite Corp. Seal for railway car journal bearing. 3,140,903, 7-14-64, Cl. 308-36.1.
- Strid, Carl J., to Stratovale & Engineering Co. Quick release pneumatic control valve. 3,125,380, 3-17-64, Cl. 303-69.
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- Striel, George. Rotary compressors, pumps and the like. 3,129,669, 4-21-64, Cl. 103-157.
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- Strnad, Frank J., to Link-Belt Co. Tower crane. 3,153,486, 10-20-64, Cl. 214-89.
- Strnad, James J., and H. B. Van Auken, to Lemco Products, Inc. Platen-leveling control system for hydraulically-actuated brake presses. 3,120,799, 2-11-64, Cl. 100-46.
- Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. α -cyano-2-alkenoxy-1-naphthaleneacrylic acid esters. 3,149,146, 9-15-64, Cl. 260-465.
- Strobel, Charles W., to Phillips Petroleum Co. Process of preparing gel free block copolymers by using a non-polymerizable nitrogen-containing compound; and products prepared thereby. 3,144,429, 8-11-64, Cl. 260-45.5.
- Strobel, Charles W., to Phillips Petroleum Co. Polymerization initiators. 3,157,604, 11-17-64, Cl. 252-431.
- Strobel, Howard E., to Eastman Kodak Co. Flash reflector with improved corner illumination. 3,132,812, 5-12-64, Cl. 240-41.35.
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- Strock, Howard E., to Associated Engineering Co. Potential tap device. 3,146,053, 8-25-64, Cl. 239-97.

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- Swartz, Paul S., to General Electric Co. Superconductive device. 3,158,794, 11-24-64, Cl. 317-158.
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- Sweeney, James C. Rotary index table. 3,120,134, 2-4-64, Cl. 74-823.
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- Middley, Eric L. 3,127,803.
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- Swengel, Robert C., to AMP Inc. Spring clip terminal for printed circuit board. Re. 25,591, 6-9-64, Cl. 339-17.
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- Takamatsu, Ikuo, to Yoshida Kogyo K.K. Interlocking element for a concealed slide fastener. 3,121,928, 2-25-64, Cl. 24-205.1.
- Takamichi, Ikuo: See—
- Kodama, Yutaka, Saikawa, Maeda, Takai, and Takamichi. 3,159,625.
- Takamizawa, Akira, and K. Hirai, to Shionogi & Co., Ltd. S-phenethyloxycarbonylthiamine O-monophosphate and the hydrochloride thereof. 3,122,548, 2-25-64, Cl. 260-256.5.
- Takamizawa, Akira, Y. Hamashima, and H. Sato, to Shionogi & Co., Ltd. Pyrazolopyrimidine derivative. 3,157,655, 11-17-64, Cl. 260-256.4.
- Takamizawa, Akira, and K. Hirai, to Shionogi & Co., Ltd. Thiamine derivatives. 3,158,613, 11-24-64, Cl. 260-256.5.
- Takanashi, Yukio: See—
- Sato, Reiji, Yamaguchi, and Takanashi. 3,134,042.
- Takano, Elske, to Nippon Electric Co. Ltd. Electrical connector. 3,157,455, 11-17-64, Cl. 339-256.
- Takano, Tsutomu, to Nippon Piston Ring Kabushiki Kaisha. Plated wearing member. 3,123,412, 3-3-64, Cl. 308-4.
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- Takara Yoshi Co., Ltd.: See—
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- Takashi Fujita: See—
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- Takashi, Seiji. Magnetic tape recorder. 3,131,882, 5-5-64, Cl. 242-55.12.
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- Takashima, Hironori: See—
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- Takimoto, Hideo H., and J. B. Rust, to Hughes Aircraft Co. Ordered organo-silicon-chelated titanium oxide copolymers and methods of making same. 3,153,000, 10-13-64, Cl. 260-2.
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- Talbot, Warren, to Summers Gyroscope Co. Accelerometer. 3,146,624, 9-1-64, Cl. 73-517.
- Talbot, David R. Surfacing machine. 3,130,653, 4-28-64, Cl. 94-45.
- Talbot, David R. Method and apparatus for controlling aquatic weed growth. 3,151,463, 10-6-64, Cl. 61-1.
- Talentinov, John, and F. B. Headley, to General Electric Co. Combined electrical connector and support means for hollow electrical components. 3,132,288, 5-5-64, Cl. 317-100.
- Talesnick, Sidney, to General Telephone and Electronics Laboratories, Inc. Electroluminescent information display system. 3,121,824, 2-18-64, Cl. 315-169.
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- Tallaksen, Robert R. Adjustable grill unit. 3,162,113, 12-22-64, Cl. 99-446.
- Tallent, Garland M. Disposable foldable blank tray for vehicle windows. 3,125,969, 3-24-64, Cl. 108-46.
- Tallent, Arthur G., and C. Green, to Imperial Chemical Industries Ltd. Plaster compositions. 3,153,596, 10-20-64, Cl. 106-115.
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- Talley, Robert E., to Bucyrus-Erie Co. Lowerable A-frame. 3,160,298, 12-8-64, Cl. 214-135.
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- Maternity mattress pad. 3,118,152, 1-21-64, Cl. 5-338.
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- Nakasone, Robert T. 3,143,883.
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- Kepler, John E. 3,153,993.
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- Tanabe, Kenichi, and H. Saito, to Kurashiki Rayon Co., Ltd., and to Air Reduction Co., Inc. Heat treatment of fibers. 3,140,957, 7-14-64, Cl. 117-6.
- Tanabe, Masato, and E. L. Shapiro, to Schering Corp. Process for converting a 3-keto- Δ^4 -steroid to the corresponding 3-keto- Δ^5 -compound. 3,127,428, 3-31-64, Cl. 260-397.4.
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- Yamamoto, Makoto, and Yoshikawa. 3,145,212.
- Yamamoto, Makoto, and Yoshikawa. 3,145,212.
- Tanaka, Akio. Portable storage battery with water reservoir. 3,150,012, 9-22-64, Cl. 136-162.
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- Tanaka, Kuniyoshi, K. Mizuno, Y. Sanno, and Y. Hamuro, to Takeda Chemical Industries, Ltd. Sulfonic acid cation exchange resin purification of nucleotides. 3,157,635, 11-17-64, Cl. 260-211.5.
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- Tanaka, Yukio, to Kokusai Denki Kabushiki Kaisha. Fluid-powder, electric bath furnace. 3,137,781, 6-16-64, Cl. 219-50.
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- Tanguy, Denis R., to Schlumberger Well Surveying Corp. Apparatus for electromagnetically investigating earth formations including means for obtaining a resistivity signal directly. 3,150,314, 9-22-64, Cl. 324-6.
- Tanigawa, Kazuaki, to See—
- Tsujihata, Keiji, Harada, Shimizu, Fukagawa, and Tanigawa. 3,146,088.
- Tanis, Edward, and H. H. Ramsey. Pull-through leader seal. 3,143,765, 8-11-64, Cl. 18-6.
- Taniyama, Masakazu, and M. Hatano, to Toho Rayon Kabushiki Kaisha. Process for the continuous manufacture of high grade acrylic fibers. 3,135,812, 6-2-64, Cl. 264-182.
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- Tann, David, to Tann Corp. Self-lubricating bearing. 3,140,128, 7-7-64, Cl. 308-36.4.

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- Tanner, Maurice C., and L. Lowes, to United Kingdom Atomic Energy Authority. Liquid-liquid contacting apparatus. 3,134,650, 5-26-64, Cl. 23-267.
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- Tansy, Jerome J., to American Urethane, Inc. Hot wire contour cutting. 3,117,911, 1-7-64, Cl. 219-19.
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- Tansy, Robert P., to Strong Cobb Arner Inc. Anhydrous thixotropic gel sustained release therapeutic compositions and method of preparation. 3,136,695, 6-9-64, Cl. 167-82.
- Tantlinger, Keith W., to Fruehauf Corp. Spreader bar for containers. 3,148,909, 9-15-64, Cl. 294-81.
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- Tantlinger, Keith W., and R. G. Flagan, to Fruehauf Corp. Alignment ramp. 3,144,141, 8-11-64, Cl. 214-10.5.
- Tantlinger, Keith W., R. G. Flagan, and R. T. Fujioka, to Fruehauf Corp. Container handling apparatus. 3,151,904, 10-6-64, Cl. 294-67.
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- Tanuma, Kazuo. Hard-boiled egg cutting tool. 3,116,770, 1-7-64, Cl. 146-2.
- Tanuma, Kazuo. Tool for opening holes in can containers. 3,153,851, 10-27-64, Cl. 30-16.
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- Tarantur, Sam, to Admiral Corp. Television tuning indicator. 3,129,283, 4-14-64, Cl. 178-5.4.
- Tarantur, Sam, to Admiral Corp. Transistor reflex amplifier with direct current amplification. 3,138,756, 6-23-64, Cl. 325-319.
- Tarasevich, Michael, and M. A. Telian, to American Bosch Arma Corp. Liquid metal floated gyroscope. 3,127,776, 4-7-64, Cl. 74-5.
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- Tardrew, Phillip L., and M. A. Nyman, to Abbott Laboratories. Hypocholesterolemic agent M-850 and method of preparation. 3,127,315, 3-31-64, Cl. 167-65.
- Tarjan, Endre, and A. Kolar, to Brown, Boveri & Cie, Aktien-gesellschaft. Protective system for synchronous electrical machines. 3,127,541, 3-31-64, Cl. 317-13.
- Tarkan, Stuart E., and E. G. Wojtowicz, to Chromalloy Corp. Production of sintered slender shapes. 3,145,100, 8-18-64, Cl. 75-200.
- Tarkington, Terry W., and C. D. Whitt, to Monsanto Co. Stabilized acrylonitrile polymer compositions. 3,156,742, 11-10-64, Cl. 260-895.
- Tarpey, Constance M., to John H. Breck, Inc. Maleic anhydride and ethylene oxide copolymers in hair preparations. 3,130,127, 4-21-64, Cl. 167-87.1.
- Tarpinian, Haig D. Electro-mechanical value-averaging instrument. 3,158,737, 11-24-64, Cl. 235-179.
- Tarr, Charles O., to See—
- Smith, Raymond, and Tarr. 3,129,120.
- Tarrant, Paul, to Dow Corning Corp. 1,1-bis(trifluoromethyl) ethyl silanes and siloxanes. 3,127,433, 3-31-64, Cl. 260-448.2.
- Tarrant, Raymond G., to See—
- Ellard, Jack, Tarrant, and Rushton. 3,145,810.
- Tarrington Co., The, to See—
- Cowles, John H. 3,133,770.
- Tarsey, Jason I. Parking meter control unit. 3,148,013, 9-8-64, Cl. 346-20.
- Tartaglia, Richard A., to See—
- Remington, Frederic, and Tartaglia. 3,124,273.
- Tarter, Carl M. Multiple crystal growing head. 3,144,308, 8-11-64, Cl. 23-273.
- Tarter, Ralph E., to General Motors Corp. Internal combustion engine ignition system and tachometer. 3,144,012, 8-11-64, Cl. 123-148.
- Tartter, Arnold, to See—
- Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,533.
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- Tartter, Arnold, H. R. Hensel, and H. Baumann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pyridazonyl-phthalocyanines. 3,126,377, 3-24-64, Cl. 260-242.
- Tarukawa, Tomiji. Apparatus for the automatic mixing and accumulation of several kinds of stock-materials. 3,133,726, 5-19-64, Cl. 259-3.
- Tarwid, Wesley, to American Can Co. Plasticized vinyl polymer organosol composition. 3,153,638, 10-20-64, Cl. 260-32.8.
- Tarzan, George M., to Automation Devices, Inc. Multi-station processing machine. 3,131,455, 5-5-64, Cl. 29-38.
- Tashjian, Albert L., to Maxson Electronics Corp. Side-by-side slotted waveguides coupled to an angularly disposed feed guide. 3,137,856, 6-16-64, Cl. 343-771.
- Tashlick, Irving, and H. M. Culbertson, to Monsanto Co. Process for producing cross-linked sulfone polymers and product thereof. 3,153,021, 10-13-64, Cl. 260-79.3.
- Task Corp., to See—
- Ward, Elmer F. 3,158,102.
- Tasker, Homer G., and A. W. Meyer, to Tasker Instruments Corp. Simultaneous equation solver. 3,143,646, 8-4-64, Cl. 235-180.
- Tasker Instruments Corp., to See—
- Daspit, John I. 3,140,391.
- Tasker, Homer G., and Meyer. 3,143,646.
- Thomas, Donald C., and Horth. 3,129,325.
- Tasopé Ltd., to See—
- Martz, Charles S., and Hillhouse. 3,130,323.
- Martz, Charles S., and Hillhouse. 3,136,671.
- Tassara, Luigi. Apparatus for vacuum metallizing hollow ceramic rods. 3,123,499, 3-3-64, Cl. 118-49.
- Tassell Hardware Co., to See—
- Tassell, Leslie E. 3,143,981.
- Tassell, Leslie E. 3,160,453.
- Tassell, Leslie E., to Tassell Hardware Co. Demountable partition. 3,143,981, 8-11-64, Cl. 108-108.

- Tassell, Leslie E., to Tassell Hardware Co. Rotating door and shelf for corner cabinets and the like. 3,160,453, 12-8-64, Cl. 312-238.
- Tassle, Douglas P., and L. K. Wetzel, to United States of America, Army. Feed belt booster with demand control. 3,126,790, 3-31-64, Cl. 89-33.
- Tassle, Harry B. Vending machine. 3,162,494, 12-22-64, Cl. 312-35.
- Tassler, Milford C., to E. I. du Pont de Nemours and Co. Stretching of thermoplastic film to improve thickness uniformity. 3,161,711, 12-15-64, Cl. 264-289.
- Tata, Raymond V., to Leesona Corp. Feed rolls. 3,119,572, 1-28-64, Cl. 242-47.08.
- Tate, Bryce E., and R. L. Miller, to Chas. Pfizer & Co., Inc. Preparation of gamma-pyrones. 3,130,204, 4-21-64, Cl. 260-345.9.
- Tate, Bryce E., and R. P. Allingham, to Chas. Pfizer & Co., Inc. Preparation of gamma-pyrones. 3,159-652, 12-1-64, Cl. 260-345.9.
- Tate, Clifton W.: See—
- Congliandi, Nicholas R., and Tate. 3,160,610.
- Tate, Francis E. G.: See—
- Wild, James H., and Tate. 3,144,452.
- Tate, Joseph B., Jr., and L. W. Erath. Depth charge firing control system. 3,162,119, 12-22-64, Cl. 102-18.
- Tate, Kenneth L., and H. R. Jaquith, to Taylor Instrument Companies. Force balance measuring instrument. 3,160,007, 12-8-64, Cl. 73-205.
- Tate, Lawrence A.: See—
- Newman, Ernest G., Chang, and Tate. 3,150,358.
- Tate, Lawrence A., to International Business Machines Corp. Stored address memory. Re. 25,599, 6-16-64, Cl. 340-172.5.
- Tate, Malcolm C., to The A. H. Emery Co. Weighing apparatus. 3,145,795, 8-25-64, Cl. 177-208.
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- Tateishi, Arthur K. Portable stereophonic record player. 3,135,837, 6-2-64, Cl. 179-100.4.
- Tatel, Howard E., and L. S. Skaggs, to United States of America, Navy. Proximity fuze. 3,116,691, 1-7-64, Cl. 102-70.2.
- Tatibana, Hideo. Apparatus for filling bottles with metered quantities of liquid. 3,116,853, 1-7-64, Cl. 222-68.
- Tatibana, Hideo. Apparatus for automatically sealing ampules. 3,124,445, 3-10-64, Cl. 65-270.
- Tatibana, Hideo. Bottle filling apparatus. 3,146,807, 9-1-64, Cl. 141-230.
- Tatra, narodni podnik: See—
- Bottger, Josef, and Klos. 3,117,565.
- Tatter, Ernest O. P., to Warwick Electronics Inc. Record changer. 3,163,427, 12-29-64, Cl. 274-10.
- Tatter, Ernest O. P., and P. W. Tappan, to Warwick Mfg. Corp. Portable sound translating device. 3,143,352, 8-1-64, Cl. 274-9.
- Tattle, William I., to Canadian General Electric Co. Ltd. Method for inserting tubular linings or draw-strings into conduits. 3,119,599, 1-28-64, Cl. 254-134.4.
- Tatum, David. Elastic cutting element for a lawn mower. 3,123,298, 5-19-64, Cl. 56-25.4.
- Tatum, David, and M. S. Maltenfort, to Ametek Inc. Pressure responsive instrument. 3,129,589, 4-21-64, Cl. 73-308.
- Tatz, Abraham, and F. H. Battle, Jr., to Cutler-Hammer, Inc. Aircraft landing system. 3,157,877, 11-17-64, Cl. 343-108.
- Taub, David: See—
- Wendler, Norman L., and Taub. 3,142,674.
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- Taub, David, N. L. Wendler, and H. L. Slates, to Merck & Co., Inc. 3 α -lower alkanoyloxy-16-lower alkyl-15 α -bromo-16-pregnene-11,20-dione and process therefor. 3,136,791, 6-9-64, Cl. 260-397.45.
- Taub, William, to Calenda-Stiftung, Institut für Wissenschaftliche und technische Forschung. Azetidine derivatives. 3,119,813, 1-28-64, Cl. 260-239.
- Taube, Carl: See—
- Bückmann, Klaus, and Taube. 3,141,728.
- Taube, Carl E. Messmer, and K. H. Freytag, to Farbenfabriken Bayer Aktiengesellschaft. Metallisable trisazo-dyes. 3,135,733, 6-2-64, Cl. 260-157.
- Taubenblat, Pierre P.: See—
- Sunday, Elmer G., and Taubenblat. 3,123,465.
- Taubenblat, Pierre W.: See—
- Sanlivirta, Matti J., and Taubenblat. 3,146,098.
- Tauber, Arthur: See—
- Kohn, Jack A., Savage, and Tauber. 3,162,603.
- Tauber, Arthur, and R. O. Savage, Jr., to United States of America, Army. Method of growing single crystals. 3,149,910, 9-22-64, Cl. 23-50.
- Tauber, Francis W., and R. N. Olson, to Union Carbide Corp. Rapid processing of comminuted meat emulsions. 3,121,638, 2-18-64, Cl. 99-109.
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- Taubes, Ernest P., to Picker X-Ray Corp., Walte Mfg. Division, Inc., and Idex Corp. Photographic camera. 3,125,940, 3-24-64, Cl. 95-34.
- Taubman, Julius P., to Fallout Assemblies Corp. Parachute discharged from multistaged projectile. 3,124,899, 3-17-64, Cl. 46-36.
- Taut Horst, and E. Sommer, to Vereinigte Glanzstoff-Fabriken AG. Optical brightening. 3,137,655, 6-16-64, Cl. 252-301.2.
- Taulli, Thomas A., to Monsanto Chemical Co. Novel silica aerogels and processes for preparing same. 3,131,072, 4-28-64, Cl. 106-306.
- Taulli, Thomas A., to Monsanto Chemical Co. Thickened compositions. 3,131,148, 4-28-64, Cl. 252-28.
- Tauschek, Max J., and R. E. Cummings, to Thompson Ramo Wooldridge Inc. Method and apparatus for minimizing combustible gas contents of engine exhaust gases. 3,147,588, 9-8-64, Cl. 60-30.
- Tauscher, Edward F., to Allied Products Corp. Threaded fastener and retained washer. 3,135,308, 6-2-64, Cl. 151-37.
- Tauscher, Henry. Rotary power device. 3,136,304, 6-9-64, Cl. 123-16.
- Tauscher, Henry. Temperature responsive seal. 3,136,557, 6-9-64, Cl. 277-26.
- Tausser, Charles H. Punching apparatus with a novel die mounting. 3,133,467, 5-19-64, Cl. 83-582.
- Tausman, Joseph: See—
- Kelk, George F., and Tausman. 3,142,762.
- Tauson, Peter O., to Arnco Steel Corp. Hydraulic transmissions. 3,156,095, 11-10-64, Cl. 60-54.
- Tauszig, Howard L. Multi-purpose container for clothing. 3,139,165, 6-30-64, Cl. 190-43.
- Tautner, Erwin, and D. G. Kerker, to North American Phillips Co., Ltd. Process of producing single-oriented silicon vice. 3,159,795, 12-1-64, Cl. 330-2.
- Tavis, John R., to Edcliff Instrument. Variable reluctance transducer. 3,118,121, 1-14-64, Cl. 336-30.
- Tavis, John R., to Edcliff Instruments, Inc. Force controlled variable reactance transducer. 3,140,450, 7-7-64, Cl. 331-40.
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- Andras, Karoly, Dallos, Erdelyi, and Toth. 3,136,888.
- Tawney, Phily O., to United States Rubber Co. Bis-3,3,3-trinitropropyl sulfone. 3,146,270, 8-25-64, Cl. 260-607.
- Tayco Developments, Inc.: See—
- Taylor, Paul H.: See—
- Taylor, Alan F., and J. T. Stockdale, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,158,929, 12-1-64, Cl. 29-474.4.
- Taylor, Alfred C., to Hunter Douglas International (Quebec) Ltd. Apparatus for punching slat assemblies. 3,161,221, 12-15-64, Cl. 153-10.
- Taylor, Allen R.: See—
- Allen, Charles L., and Taylor. 3,128,378.
- Taylor, Anthony J.: See—
- Picton, James S., and Taylor. 3,144,918.
- Taylor, Anthony J., to Babcock & Wilcox Ltd. Nuclear power plant heat exchanger control. 3,151,030, 9-29-64, Cl. 176-20.
- Taylor, Arthur B.: See—
- Crouch, Lindsey B., and Taylor. 3,151,600.
- Taylor, Arthur S., and W. P. Konazewski, to American Cyanamid Co. Marked rim bottle closure. 3,121,505, 2-18-64, Cl. 215-38.
- Taylor, Arthur S., and I. S. Danielson, to American Cyanamid Co. Multiple disposable intracutaneous injector package. 3,123,212, 3-3-64, Cl. 206-63.4.
- Taylor, Arthur S., and W. P. Konazewski, to American Cyanamid Co. Capsule forming die roll with guard rings. 3,124,840, 3-17-64, Cl. 18-21.
- Taylor, Arthur S., and E. R. Sandhage, to American Cyanamid Co. Two-compartment aspirating hypodermic syringe. 3,161,195, 12-15-64, Cl. 128-220.
- Taylor, Bernard M., Jr. Perspective or orthographic plotter. 3,145,474, 8-25-64, Cl. 33-18.
- Taylor, Bernard M., Jr. Projection system including converting points in a three-dimensional coordinate system to two-dimensional planar projections. 3,153,224, 10-13-64, Cl. 340-172.5.
- Taylor, Beverly W. Marble tube toy. 3,135,512, 6-2-64, Cl. 273-109.
- Taylor, Beverly W. Kaleidoscopes. 3,160,056, 12-8-64, Cl. 88-15.
- Taylor, Billy W., to Fisher Scientific Co. Method for blood gas analysis. 3,118,736, 1-21-64, Cl. 23-230.
- Taylor, Billy W., and A. A. Poll, Jr., to Fisher Scientific Co. Method and apparatus for the separation and storage of fluids by chromatography. 3,141,323, 7-21-64, Cl. 73-23.
- Taylor, Bruce G. Aircraft having wing with arcuate shaped trailing edge. 3,129,905, 4-21-64, Cl. 244-42.
- Taylor, Carl S., to Dura Corp. Turning radius gauge. 3,161,965, 12-22-64, Cl. 33-203.
- Taylor, Cecil L., to Leslie Hartridge Ltd. Injection nozzle tester. 3,117,444, 1-14-64, Cl. 73-119.
- Taylor, Cecil L., to Leslie Hartridge Ltd. Injection pump and nozzle tester. 3,119,258, 1-28-64, Cl. 73-168.
- Taylor, Charles F. Vehicle. 3,145,797, 8-25-64, Cl. 180-21.
- Taylor, Charlton A. Method for direct reduction of metal oxides. 3,157,488, 11-17-64, Cl. 75-34.
- Taylor, Christopher G., to Service Distributors, Inc. Coin controlled metering device. 3,140,766, 7-14-64, Cl. 194-84.
- Taylor, Clarence E.: See—
- Mosher, Robert E., Taylor, and Townsend. 3,147,798.

- Taylor, Clarence G., to Products Design, Inc. Lift-propulsion device for aircraft. 3,117,746, 1-14-64, Cl. 244-12.
- Taylor, Clarence R.: See—
- Henriksson, Sven F., and Taylor. 3,117,654.
- Hodges, Howard T., Swing, and Taylor. 3,143,948.
- Knab, Clarence S., and Taylor. 3,161,283.
- Taylor, Clarence R. Staple removing device. 3,126,195, 3-24-64, Cl. 254-28.
- Taylor, Clyde E., A. L. Hunt, and J. E. Omohundro, to United States of America, Atomic Energy Commission. Process and device for cryogenic adsorption pumping. 3,144,200, 8-11-64, Cl. 230-69.
- Taylor-Creager Music Corp.: See—
- Taylor, William B. 3,130,624.
- Taylor, Daniel D., and C. C. Brawner, to Beckman Instruments, Inc. Electrical detonator. 3,155,553, 11-3-64, Cl. 149-21.
- Taylor, David L. Water flow indicator. 3,161,175, 12-15-64, Cl. 116-118.
- Taylor, Donald J.: See—
- Pellegrino, Frank G., Taylor, and Berardino. 3,147,180.
- Taylor, Donald R., Jr., to Philco Corp. Circuit for discriminating between signal components. 3,122,608, 2-25-64, Cl. 178-7.3.
- Taylor, Donald R., Jr., to Philco Corp. Multi-function tube circuits for electrical signal processing. 3,146,303, 8-25-64, Cl. 178-5.8.
- Taylor, Donald R., Jr., to Philco Corp. Multi-function system for television receivers. 3,146,304, 8-25-64, Cl. 178-5.8.
- Taylor, Douglas E., and W. F. Mitchell, to Dictaphone Corp. Automatic volume control system for a dictating machine and the like. 3,132,213, 5-5-64, Cl. 179-100.1.
- Taylor, Douglas W., to Motorola, Inc. Television receiver cabinet with pivoted vertical monopole mounted thereon. 3,154,785, 10-27-64, Cl. 343-702.
- Taylor, Edith: See—
- Taylor, Howard F. 3,117,554.
- Taylor, Edward W.: See—
- Bostrom, Mark R., and Taylor. 3,145,304.
- Momberg, James W., and Taylor. 3,141,429.
- Taylor, Ernest A., Jr., to Monsanto Chemical Co. Apparatus for controlling the application of heat. 3,127,497, 3-31-64, Cl. 219-19.
- Taylor, Ernest A., Jr., to Monsanto Co. Stroboscopic speed ratio indicator. 3,148,327, 9-8-64, Cl. 324-69.
- Taylor, Ernest H.: See—
- Welch, Thomas R., and Taylor. 3,147,349.
- Taylor, Felix E. Method of producing smoke oil and product. 3,152,914, 10-13-64, Cl. 99-140.
- Taylor, Frederick H.: See—
- Watson, Albert R., and Taylor. 3,144,323.
- Taylor, Halsey W., Co.: See—
- Kistler, Gerald A. 3,137,141.
- Taylor, Harold M., to Eli Lilly and Co. Preparation of substituted acetamides. 3,141,041, 7-14-64, Cl. 260-558.
- Taylor, Harold W.: See—
- Rankin, Alexander B. C., Buffery, Taylor, and French. 3,121,325.
- Taylor, Harry E., to Becton, Dickinson and Co. Magazine unit for dispensable disks. 3,119,521, 1-28-64, Cl. 221-287.
- Taylor, Harvey C., to Dorr Sales & Engineering Co., Inc. Die mounting machine having removable cylinder and method of removing and replacing its cylinder. 3,161,129, 12-15-64, Cl. 101-212.
- Taylor, Herbert S., to D. W. Galbraith, trustee for the stockholders of Agriform Chemical Co., Inc. Reactor apparatus. 3,153,578, 10-20-64, Cl. 23-260.
- Taylor, Howard D., to Automatic Canteen Co. of America. Magnetic blasing means. 3,133,618, 5-19-64, Cl. 194-18.
- Taylor, Howard F., to E. Taylor. Bird feeder. 3,117,554, 1-14-64, Cl. 119-52.
- Taylor, Howard F., and R. G. Powell. Shell mold compositions. 3,116,522, 1-7-64, Cl. 22-129.
- Taylor, Howard S., to Airguide Instrument Co. Marine speedometer. 3,126,738, 3-31-64, Cl. 73-182.
- Taylor, Howard U.: See—
- Roup, Roland R., Laird, and Taylor. 3,117,094.
- Taylor Instrument Companies: See—
- Cefaly, Ralph. 3,124,211.
- Hart, John E., Jaquith, and Berk. 3,126,903.
- Howell, William L. 3,157,246.
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- Nichols, Nathaniel B. 3,135,872.
- Tate, Kenneth L., and Jaquith. 3,160,007.
- Taylor, James G.: See—
- Drake, Bernard, Clark, Hicks, and Taylor. 3,128,347.
- Taylor, James R., and A. J. Barker. Combination swimming pool and bomb shelter. 3,118,148, 1-21-64, Cl. 4-172.
- Taylor, James W., and F. McKay, to Farrington Business Machines Corp. Portable data imprinting apparatus with tiltable type bars and web feeding means. 3,151,544, 10-6-64, Cl. 101-93.
- Taylor, Jay F.: See—
- Schmidt, Irving, and Taylor. 3,143,503.
- Taylor, John E. Heating appliances. 3,138,699, 6-23-64, Cl. 219-521.
- Taylor, John E., and D. P. Ross, to Thompson Ramo Wooldridge Inc. Spike control for jet engines. 3,131,534, 5-5-64, Cl. 60-35.6.
- Taylor, John K., and S. W. Smith, to United States of America, Commerce. Coulometric titration coulometer. 3,131,348, 4-28-64, Cl. 324-94.
- Taylor, Joseph W., B. A. Abercrombie, and V. B. Scott, to U.S. Industries, Inc. Sequentially operable valves. 3,143,143, 8-4-64, Cl. 137-629.
- Taylor, Keith M., and G. L. Wofford, to Monsanto Co. Preparation of trichloroethanes. 3,138,643, 6-23-64, Cl. 260-658.
- Taylor, Kelley G.: See—
- Bossinger, Charles D., and Taylor. 3,144,389.
- Taylor, Kelley G., to A. E. Staley Mfg. Co. Modified starch product for coating cellulosic webs. 3,137,588, 6-16-64, Cl. 117-62.2.
- Taylor, Kennedy G., Jr., to Genesco, Inc. Shoe construction having upper secured within groove of sole ring. 3,133,360, 5-19-64, Cl. 36-17.
- Taylor, Kirman: See—
- Hengeveld, Frank W., and Taylor. 3,134,640.
- Taylor, Kirman, to Diamond Alkali Co. Preparation of chromium complexes of B-diketones. 3,134,797, 5-26-64, Cl. 260-438.
- Taylor, Lloyd F., to Scovill Mfg. Co. Electric irons. 3,129,523, 4-21-64, Cl. 38-78.
- Taylor, Lockhart, and D. F. Walker, to Ferranti, Ltd. Delay lines. 3,127,665, 4-7-64, Cl. 29-155.5.
- Taylor Machine Works: See—
- Eaves, James J. 3,119,637.
- Eaves, James J. 3,120,898.
- Eaves, James J. 3,124,263.
- Taylor, William A., Sr. 3,122,111.
- Taylor Mfg. Co.: See—
- Bear, John H. 3,119,139.
- Taylor, Maurice E., to Gulf Research & Development Co. Self-adjusting attenuation equalizer. 3,150,327, 9-22-64, Cl. 330-126.
- Taylor, Maurice I.: See—
- Oldfield, Thomas A., and Taylor. 3,130,543.
- Taylor, Maurice K., to Ferranti Packard Electric Ltd. Reading and writing head mounting means. 3,132,328, 5-5-64, Cl. 340-174.1.
- Taylor, Maurice K., to Ferranti Ltd. Magnetically operated sign. 3,140,553, 7-14-64, Cl. 40-28.
- Taylor, Owen L., to Westinghouse Electric Corp. Wiring device and securing means therefor. 3,125,629, 3-17-64, Cl. 174-53.
- Taylor, Paul H., to Tayco Developments, Inc. Honing apparatus and workholder. 3,117,397, 1-14-64, Cl. 51-48.
- Taylor, Phillip W., to Taylor Plastics, Inc. Wiring duct. 3,126,444, 3-24-64, Cl. 174-101.
- Taylor Plastics, Inc.: See—
- Taylor, Phillip W. 3,126,444.
- Taylor Publishing Co.: See—
- Shepherd, Max A., and Zurmuhlen. 3,121,362.
- Taylor, Raymond G., Jr., to Byron Jackson Inc. Slip elevators. 3,140,523, 7-14-64, Cl. 24-263.
- Taylor, Raymond G., Jr., and N. H. Lee, Jr., to Byron Jackson, Inc. Stop collar. 3,141,688, 7-21-64, Cl. 287-52.03.
- Taylor, Richard, to International Business Machines Corp. Phase shift semiconductor apparatus. 3,158,760, 11-24-64, Cl. 307-88.5.
- Taylor, Richard E.: See—
- Anderson, David F., Butterworth, and Taylor. 3,158,063.
- Stanton, Arthur J., Anderson, Taylor, Butterworth, and Shawen. 3,144,810.
- Taylor, Richard L., to International Business Machines Corp. Coded paper tape to magnetic tape translator. 3,155,940, 11-3-64, Cl. 340-172.5.
- Taylor, Robert D.: See—
- Horne, Ronald, Price, and Taylor. 3,142,831.
- Horne, Ronald, and Taylor. 3,149,224.
- Taylor, Robert G.: See—
- Herridge, William G., Jr., and Taylor. 3,125,702.
- Taylor, Robert G., Jr., and J. H. Vogelsong, to Bell Telephone Laboratories, Inc. Error-checking circuit for a data transmission system. 3,140,463, 7-7-64, Cl. 340-146.1.
- Taylor, Robert L., and F. Zuschek, to Diamond Laboratories, Inc. Diagnostic test for hog cholera. 3,124,511, 3-10-64, Cl. 167-84.5.
- Taylor, Samuel, & Sons (Brierley Hill) Ltd.: See—
- Devonport, John. 3,137,013.
- Devonport, John. 3,157,891.
- Taylor, Theodore B., A. W. McReynolds, and F. J. Dyson, to General Dynamics Corp. Reactor with prompt negative temperature coefficient and fuel element therefor. 3,127,325, 3-31-64, Cl. 176-62.
- Taylor, Thomas S.: See—
- Huntress, Howard B., and Taylor. 3,156,096.
- Huntress, Howard B., and Taylor. 3,157,033.
- Wilhelm, John R., and Taylor. 3,158,345.
- Taylor, Thomas, & Sons, Inc.: See—
- Dawes, Robert T. 3,130,630.
- Taylor, Thomas D., and F. W. Hopkins. Apparatus for preventing freeze-up of refrigerator doors. 3,135,100, 6-2-64, Cl. 62-275.
- Taylor, Walter R., to Automotive Products Co. Ltd. Spot-type disc brakes. 3,156,325, 11-10-64, Cl. 188-73.

- Taylor, Wesley L., and H. E. Robb, Jr., to The Powers Regulator Co. Portable recorder. 3,150,913, 9-29-64, Cl. 846-80.
- Taylor, Wilbur S.: See—
Waterman, Raymond R., and Taylor. 3,154,885.
- Taylor, Wilfred K., to International Business Machines Corp. System for analysing the spatial distribution of a function. Re. 25,679, 11-10-64, Cl. 340-146.3.
- Taylor, William A.: See—
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- Tharp, Clarence E., to Johns-Manville Corp. Apparatus for use in the production of fibrous products. 3,151,363, 10-6-64, Cl. 19-156.1.
- Tharp, Robert L., to General Electric Co. Turbine bucket supporting structure. 3,132,842, 5-12-64, Cl. 253-77.**
- * Hart, Marius, to Shell Oil Co. Combined hydrosolomerization-desulfurization process. 3,156,640, 11-10-64, Cl. 208-64.**
- Thatcher, Donald N., to E. I. du Pont de Nemours and Co. Process for production of 2-(o-aminophenyl)-2,1,3-benzotriazole. 3,153,048, 10-13-64, Cl. 260-308.**
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- Thatcher, Harry W., to Draper Corp. Replenishing mechanism for looms. 3,126,923, 3-31-64, Cl. 139-245.**
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- Thayer, Frederick D., Jr., to Corn Products Co. Reaction of amide and triazine substituted starches with polyaldehydes. 3,127,393, 3-31-64, Cl. 260-233.3.**
- Thayer, George L., Jr., and J. C. Hewitt, Jr., deceased, by Thayer, Hewitt and P. A. Morrison, administrators, to Robertshaw Controls Co. Solenoid magnetic damper. 3,145,327, 8-18-64, Cl. 317-185.**
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- Thayer, John R.: See—**
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- Thayer, Robert H.: See—**
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- Theed, William D. L., to Sir George Godfrey & Partners (Holdings) Ltd., and 1/2 to himself. Braking device on a vehicle. 3,116,897, 1-7-64, Cl. 244-17.17.**
- Theenhausen, Heinrich, and W. Siebrasse, to Anker-Phoenix Nähmaschinen AG. Zigzag sewing machine with control device for producing composite enclosed-area stitch patterns. 3,162,156, 12-22-64, Cl. 112-158.**
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- Theilig, Arthur W., to Rockwood & Co. Egg incubating tray with rack and pallet. 3,147,738, 9-8-64, Cl. 119-43.**
- Theis, Donald E.: See—**
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- Thelen, Francis H., to Fuller Co. Apparatus for assembling impeller elements. 3,149,378, 9-22-64, Cl. 18-36.**
- Them, Edward G., to Therm-O-Disc Inc. Fail-safe probe-type thermostatic control device. 3,134,003, 5-19-64, Cl. 200-137.**
- Them, Edward G., to Therm-O-Disc, Inc. Temperature sensing assembly for a thermo-switch. 3,155,798, 11-3-64, Cl. 200-137.**
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- Theoclitus, Gregory, to Combustion Engineering, Inc. Rotary regenerative heat exchange apparatus. 3,138,198, 6-23-64, Cl. 165-7.**
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- Theodore, Charles, and J. A. Ross, to Ling-Temco-Vought, Inc. Random noise system for vibration testing. 3,163,809, 12-29-64, Cl. 318-132.**
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- Theodorou, Ignatius E. Hair clipper attachment. 3,161,953, 12-22-64, Cl. 30-202.**
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- Theriot, Ivy J., and L. R. Burrow, to General Dynamics Corp. (Convair Division). Photosensitive variable frequency multiplier. 3,140,399, 7-7-64, Cl. 250-233.**
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- Thiel, Alfons W., Apparatus for the production of thin-walled plastic articles. 3,161,915, 12-22-64, Cl. 18-19.**
- Thiel, Otto, and J. G. Hackert, to Midwest Supply and Mfg. Co. Compound motion adapter for buffing machine. 3,144,777, 8-18-64, Cl. 74-22.**
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- Thielman, Russell F., to Thompson Ramo Wooldridge, Inc. Solid propellant gas rotary valve. 3,132,478, 5-12-64, Cl. 60-35.54.**
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- Thiemann, Francis V., to Potter Instrument Co., Inc. High speed printer drum. 3,128,693, 4-14-64, Cl. 101-93.**
- Thieme, Jochem, to Kolach-Folzer Werke Aktiengesellschaft. Method of pouring cast iron. 3,137,566, 6-16-64, Cl. 75-56.**

- Thieme, Peter. Film-holding devices. 3,150,457, 9-29-64, Cl. 40-152.
- Thieme, Peter, and W. Schwarz, to Colorclip Photo oHG. Thieme u. Co. Means for framing film-transparencies. 3,126,621, 3-31-64, Cl. 29-211.
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- Thiessen, Henry F. Detachable heel lifts. 3,152,408, 10-13-64, Cl. 36-86.
- Thigpen, Thomas A., Jr., and J. K. Warkentin, to Phillips Petroleum Co. Producing noncorrosive mercaptan product. 3,162,658, 12-22-64, Cl. 260-609.
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- Thomander, Vernon S., to Westinghouse Electric Corp. Re-pulsion iron vane assembly. 3,155,904, 11-3-64, Cl. 324-147.
- Thomaun, Ernst, to Gutehoffnungshütte Sterkrade Aktiengesellschaft. Control mechanism for rotary compressors. 3,119,552, 1-28-64, Cl. 230-114.
- Thomas, Alan H., W. S. Briggs, and D. S. Henderson, to W. R. Grace & Co. Lead removal device. 3,162,518, 12-22-64, Cl. 55-316.
- Thomas, Albert G. Magnetic clutch. 3,147,835, 9-8-64, Cl. 192-84.
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- Thomas, Edmund P., to The White Motor Co. Compressor valve. 3,143,133, 8-4-64, Cl. 137-454.4.
- Thomas, Edward C., to Great Lakes Carbon Corp. Graphite joints of highly uniform electrical resistance. 3,161,580, 12-15-64, Cl. 204-288.
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- Thomas, Erich, to Betriebsungs- und Patentverwaltungsgesellschaft mit beschränkter Haftung. Continuous scaling device for metal bands. 3,129,712, 4-21-64, Cl. 134-57.
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- Thomas, Frank P., to General Equipment Mfg. and Sales, Inc. Agitator for dispensing freezer. 3,145,017, 8-18-64, Cl. 259-45.
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- Thomas, Gareth. Process for improving stress-corrosion resistance of age-hardenable alloys. 3,133,839, 5-19-64, Cl. 148-127.
- Thomas, George A., 33 1/4% to J. R. Hatch, 33 1/4% to D. Craven, and 1/4 to Republic National Bank of Dallas. Device for use in pressurizing well tubing and the like and for releasing such pressure. 3,141,506, 7-21-64, Cl. 166-226.
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- Thomas, Glen H., T. Ongaro, and E. R. Lucka, to International Research & Development Corp. Plane resolvers. 3,143,888, 8-11-64, Cl. 73-462.
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- Thomas, Harold A., to General Dynamics Corp. Radiation detection system comprising a pulse integrator. 3,157,789, 11-17-64, Cl. 250-83.6.
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- Osborne, Fred H., and Thomas. 3,127,178.
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- McGinty, William K., and Hienz. 3,149,814.
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- Serio, Pasquale S., Agrell, and Lessner. 3,134,498.
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- Thomas, Jeremiah L., Jr.: See—
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- Thomas, Jesse B., to Reynolds Metals Co. Apparatus for expanding passageway panels on one side. 3,134,349, 5-26-64, Cl. 113-44.
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- Thomas, John W. Fish lure. 3,143,824, 8-11-64, Cl. 43-42.11.
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Phillips, Bernard C. 3,118,009.
Phillips, Bernard C. 3,133,129.
Tillson, Robert S.: See—
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- Siegart, William R., Odell, Toettcher, and Kay. 3,125,524.
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- Toffemire, Benjamin F. Pre-contoured dental matrix band. 3,145,472, 8-25-64, Cl. 32-83.
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- Tollin, Joe E. Vacuum cleaning tool. 3,136,986, 6-9-64, Cl. 15-875.
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- Tolkmitz, Henry: See—
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- Tolman, Harold J. Stripper for coaxial cables. 3,161,088, 12-15-64, Cl. 81-9.5.
- Tolson, Charles D.: See—
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- Tolson, Charles G., to American Air Filter Co., Inc. Air heat-ers. 3,145,978, 8-25-64, Cl. 263-19.
- Toma, Daniel N., to General Electric Co. Washing machine with improved tub cover. 3,121,317, 2-18-64, Cl. 68-23.
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- Tomauolo, Theodore J. Combination dustpan-waste receptacle cover. 3,156,941, 11-17-64, Cl. 15-257.1.
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- Tomanek, Martha: See—
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- Tomanek, Martha (nee Kuntzler), to Azoplate Corp. Material for electrophotographic purposes. 3,161,505, 12-15-64, Cl. 96-1.
- Tomar Industries, Inc.: See—
- Ranoha, Stephen. 3,154,457.
- Tomarkin, Leandro W., to American Machine & Foundry Co. Synthetic bowling pins. 3,147,974, 9-8-64, Cl. 273-82.
- Tomasello, Horace: See—
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- Tomasetti, Amelia. Toilet lid cover. 3,118,149, 1-21-64, Cl. 4-242.
- Tomasovich, Martin. Sample taking device for portable bulk produce bins. 3,119,271, 1-28-64, Cl. 73-424.
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- Brown, Henry, and Tomaszewski. 3,152,972.
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- Tomberlin, Bill M., to Petro-Electronics Corp. Apparatus for the application of electrical energy to subsurface formations. 3,133,592, 5-19-64, Cl. 166-60.
- Tomchak, Joseph A. Tire treating apparatus. 3,121,437, 2-18-64, Cl. 134-123.
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- Tomek, Reinhold E., to International Business Machines Corp. Coupling means for control systems. 3,135,903, 6-2-64, Cl. 318-31.
- Tomes, Adam E., to St. Luke's Hospital Research Foundation, Inc. Synchronized recording device. 3,163,486, 12-29-64, Cl. 346-33.
- Tomes, Sidney R., to Powertron Corp. Magnetostrictive sensing devices. 3,139,544, 6-30-64, Cl. 310-26.
- Tomic, Ernst A., to E. I. du Pont de Nemours and Co. Process for preparing caprolactam. 3,153,037, 10-13-64, Cl. 260-239.3.
- Tomioaka, Tatsuo: See—
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- Corwin, Howard D. 3,162,092.
- Tomkinson, John G.: See—
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- Tomko, Donald R.: See—
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- Sajovec, Frank M., Jr., and Tomko. 3,153,352.
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- Tomlinson, Arthur R., to FMC Corp. Method and apparatus for spinning artificial filaments. 3,130,448, 4-28-64, Cl. 18-8.
- Tomlinson, Barnard E. Frozen material shaving and mixing apparatus. 3,154,123, 10-27-64, Cl. 146-68.
- Tomlinson, Charles W.: See—
- Fuller, James L., and Tomlinson. 3,124,084.
- Tomlinson, Earl E., L. J., and M. L. Blade mounting means for a double sickle mower. 3,121,303, 2-18-64, Cl. 56-297.
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- Tomlinson, Joseph R., to United States of America, Army. Encapsulation of electronic circuits. 3,153,694, 10-20-64, Cl. 174-52.
- Tomlinson, Kenneth D. Freight car construction. 3,159,112, 12-1-64, Cl. 105-367.
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- Tomlinson, Earl E., L. J., and M. L. 3,121,303.
- Tomlinson, Marquis L.: See—
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- Tomlinson, Richard W., to Imperial Chemical Industries Ltd. Purification of phthalic anhydride. 3,155,688, 11-3-64, Cl. 260-346.7.
- Tomono, Masami, T. Takagi, T. Tokuyama, and E. Yamada to Kabushiki Kaisha Hitachi Selsakusho. Method of producing PN junctions. 3,154,445, 10-27-64, Cl. 148-179.
- Tomono, Rihel, to Okuno Chemical Industry Co. Chromate process. 3,159,509, 12-1-64, Cl. 148-616.
- Tompers, Theodore C. Fireplace front or fixture. 3,162,188, 12-22-64, Cl. 126-140.
- Tompkins, Harold F.: See—
- Farmer, Homer H., and Tompkins. 3,139,405.
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- Tompkins, Sherman A., and W. O. Jackson, to Johns-Manville Corp. Reinforced thermal insulation having facing sheets secured to the reinforcement. 3,152,034, 10-6-64, Cl. 161-113.
- Tompos, Donald J., to Industrial Nucleonics Corp. Radioactive source capsule with capsule retaining and releasing means. 3,122,643, 2-25-64, Cl. 250-106.
- Toms, Lee. Dispensing cup assembly containing a food concentrate. 3,121,636, 2-18-64, Cl. 99-78.
- Tondreau, Clarence A.: See—
- Morton, Evans T., and Tondreau. 3,144,078.
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- Freedman, Lawrence I., Tone, Erickson, and Oberg. 3,126,627.
- Freedman, Lawrence I., Tone, and Rappaport. 3,132,232.
- Tone, John W., and W. D. Taylor, to Ronson Corp. Mashing and whipping implement. 3,132,831, 5-12-64, Cl. 259-134.
- Tone, John W., G. A. Oberg, and E. S. Erickson, to Ronson Corp. Engaging and opening mechanism for a can opener. 3,142,902, 8-4-64, Cl. 30-4.
- Tonelli, Ruggero R., to Radio Steel & Mfg. Co. Coaster wagon handle. 3,130,443, 4-28-64, Cl. 16-110.
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- Monsees, Claude E., and Tong. 3,122,072.
- Tong, Duncan. Artificial floral display. 3,158,524, 11-21-64, Cl. 161-27.
- Tong, Duncan. Stem mounting for artificial flowers. 3,161,559, 12-15-64, Cl. 161-30.
- Tong, Duncan. Artificial Christmas trees. 3,163,574, 12-29-64, Cl. 161-24.
- Tongue, Ben H., to Blonder-Tongue Electronics. Unilateralized transistor relay system. 3,156,872, 11-10-64, Cl. 330-27.
- Tonkin, Kenneth J., and R. J. Gies, to A. B. Dick Co. Dampening system for lithographic printing presses. 3,146,706, 9-1-64, Cl. 101-148.
- Tonkin, Stephen W., and R. Pedlar, to Bristol Aircraft Ltd. Flight control of aircraft. 3,130,946, 4-28-64, Cl. 244-77.
- Tonne, Friedrich. Control device for conveying pipes for dispatch tubes. 3,138,346, 6-23-64, Cl. 243-16.
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- Tonnon, Vincent F. Framed shade screens for windows and various means for attaching same. 3,126,052, 3-24-64, Cl. 160-90.
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- Chain, Ernst B., Bonino, and Tonolo. 3,162,640.
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- Toomey, John A., and L. T. Collar and neckband construction for clerical garments. 3,159,846, 12-8-64, Cl. 2-103.
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- Toomey, John A., and L. T. 3,159,846.
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- Toone, Brian, F. Arklass, and A. M. Barham, to Rolls-Royce Ltd. Combustion equipment with catalytic fuel/gas ignition means. 3,136,125, 6-9-64, Cl. 60-39.82.
- Toorell, Sture E., to Atvidabergsfakt. Aktiebolaget. Calculating machines. 3,157,353, 11-17-64, Cl. 235-62.
- Tooth, Arthur C., to Fluxello Castors & Wheels Ltd. Sockets for castors. 3,128,495, 4-14-64, Cl. 16-43.
- Tooth, Peter J. I. Automatic metering device. 3,158,736, 11-24-64, Cl. 235-164.
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- Krsek, George, Benzing, and Topas. 3,131,098.
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- Topper, Bernard, to R. C. Kaufman. Self inflating ball. 3,119,617, 1-28-64, Cl. 273-58.
- Topping, F. V., Electronics Ltd.: See—
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- Torely, Tore S. R. Windshield wiper and washer assembly. 3,143,753, 8-11-64, Cl. 15-250.04.
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- Torkelson, Arnold: See—
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- Tornoe, John A., and R. A. Marotto, to Schlage Lock Co. Adjustable strike. 3,161,429, 12-15-64, Cl. 292-341.18.
- Tornqvist, Erik, to Esso Research and Engineering Co. Polymerization catalyst. 3,121,063, 2-11-64, Cl. 252-429.
- Tornqvist, Erik, C. W. Seelbach, and A. W. R. Langer, to Esso Research and Engineering Co. Preparation of partially reduced transition metal halide catalyst compositions. 3,128,252, 4-7-64, Cl. 252-429.
- Tornqvist, Erik, and A. W. Langer, Jr., to Esso Research and Engineering Co. Co-crystallized catalyst preparation process. 3,130,003, 4-21-64, Cl. 23-887.
- Tornqvist, Erik, and P. A. Argabright, to Esso Research and Engineering Co. Co-crystallized aluminum chloride vanadium chloride-titanium chloride-polymerization catalyst. 3,139,419, 6-30-64, Cl. 260-93.7.
- Toro Mfg. Corp.: See—
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- Torok, Julius J., to Owens-Illinois Glass Co. Press-molding machine with heat flow control. 3,148,047, 9-8-64, Cl. 65-205.

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- Tulloch, Charles W., to E. I. du Pont de Nemours and Co. N-trifluoromethyl amino-sulfur compounds. 3,121,112, 2-11-64, Cl. 260-543.
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- Tupper, Earl S., to Rexall Drug and Chemical Co. Discardable or reusable plastic package. 3,155,233, 11-3-64, Cl. 206-46.
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- Turetzky, Melvin N., and N. H. Katz, to General Aniline & Film Corp. Basic anthraquinone dyestuffs. 3,123,605, 3-3-64, Cl. 260-247.
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- Turlay, Joseph D., to General Motors Corp. Resilient support assembly. 3,139,250, 6-30-64, Cl. 248-10.
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Turner, Horace G., to The Plessey Co. Ltd. Fuel control in internal-combustion turbine engines. 3,146,591, 9-1-64, Cl. 60-39.28.
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- Viard, Marcel. Sprayer having a reservoir with a spray head mounted tightly thereon. 3,162,372, 12-22-64, Cl. 239-354.
- Vibber, Alfred W. Method and apparatus for twisting and plying strands. 3,153,893, 10-27-64, Cl. 57-58.3.
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Vogt, Richard, to The Boeing Co. Hydrofoil boat with wave and cavitation control. 3,149,602, 9-22-64, Cl. 114-66.5.
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Vogtle, Friedrich, G., and F. Method of and device for measuring the viscosity of liquids. 3,126,735, 3-31-64, Cl. 73-59.

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Vogtlin, Karl, to Kienzle Apparate G.m.b.H. Tachograph having means for making a reference line. 3,141,726, 7-21-64, Cl. 346-23.
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Volda, George, to United States of America, Atomic Energy Commission. Inspectable soldering flux composition. 3,139,360, 6-30-64, Cl. 148-23.
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Von Bohar, Edgar, to Elliott Machine Corp. Floating dredge design. 3,146,537, 9-1-64, Cl. 37-69.
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Von Brachel, Hanswili, H. Essei, and G. Sinn, to Farbenfabriken Bayer Aktiengesellschaft. Latex foam stabilized with an alkylated polyetherpolythioether glycol. 3,158,663, 11-24-64, Cl. 260-723.
Von Brachel, Hanswili, W. Wolff, H. Holtschmidt, and W. Gubel, to Farbenfabriken Bayer Aktiengesellschaft. Compositions containing polyetherpolythioethers as plasticizers. 3,163,620, 12-29-64, Cl. 260-30.8.
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- Vonderschmitt, Bernard V., and R. A. Daniel, to Radio Corp. of America. Flyback transformer and transistorized deflection circuit. 3,143,686, 8-4-64, Cl. 315-27.
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- Von Elsenhart-Rotho, Günther, to Vereinigte Filzfabriken AG. Collar linings on men's and ladies' garments. 3,161,888, 12-22-64, Cl. 2-198.
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- Von Gunten, Lee L., to Aurora Corp. of Illinois. Solenoid means and solenoid mounting means for pianos. 3,126,783, 3-31-64, Cl. 84-246.
- Von Gunten, Lee L., Piano with electric note playing means. 3,141,368, 7-21-64, Cl. 84-246.
- Von Gunten, Lee L., Piano having electric playing means therefor. 3,149,528, 9-22-64, Cl. 84-425.
- Von Gunten, Lee L., to Aurora Corp. of Illinois. Electric memory latch device for piano having electric chord and run playing mechanism. 3,160,049, 12-8-64, Cl. 84-245.
- Von Gunten, Lee L., to Aurora Corp. of Illinois. Solenoid means for actuating and guiding piano playing means. 3,160,052, 12-8-64, Cl. 84-433.
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- Von Herz, Edmund, to Dynamit Nobel Aktiengesellschaft. Process for the production of primer compositions for percussion caps including rifling cartridges. 3,159,512, 12-1-64, Cl. 149-22.
- Von Hesser, Frederick, to Fairmount Chemical Co., Inc. Core solder. 3,158,120, 11-24-64, Cl. 113-110.
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- Wagner, Annemarie, and S. Petersen, to Farbenfabriken Bayer Aktiengesellschaft. Brightening of fiber material by coating with 1,3-diaryl and 1,3,5-triaryl pyrazoline derivatives. 3,131,079, 4-28-64, Cl. 117-33.5.
- Wagner, Annemarie, A. Schlachter, and H. Marzolph, to Farbenfabriken Bayer Aktiengesellschaft. 1,3-diaryl and 1,3,5-triaryl-pyrazoline derivatives. 3,135,742, 6-2-64, Cl. 260-239.9.
- Wagner, Anton, W. Beck, and A. Diskus, to Österreichische Stickstoffwerke Aktiengesellschaft. Fungicidal compositions and methods employing 2,3,5,10-tetrahydro-3,5,10-trioxo-naphthalino-[2,3-i] oxazines, thiazines and piperazines. 3,123,526, 3-3-64, Cl. 167-33.
- Wagner, Arthur C. Sheet metal expansion anchor having eccentric turned edge. 3,136,202, 6-9-64, Cl. 85-2.4.
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- Wagner, Chester. Deep fat pressure fryer. 3,159,095, 12-1-64, Cl. 99-408.
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- Wagner, George M., P. E. Hoch, and I. Gordon, to Hooker Chemical Corp. Polymerization inhibitors for hydroxy phosphonium halides containing nitrogen compound accelerator. 3,146,212, 8-25-64, Cl. 260-2.

- Wagner, George S., to Cryogenics, Inc. Quick disconnect cryogenic coupling. 3,116,943, 1-7-64, Cl. 285-312.
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- Wagner, Hans, to L. Schuler A.G. Feed device on flow deformation presses. 3,160,276, 12-8-64, Cl. 207-6.
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- Wahlmark, Gunnar A. Lubrication mechanism for fluid device. 3,130,817, 4-28-64, Cl. 184-6.
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Waldron, David W., Jr., to Lowndes Engineering Co., Inc. Process and apparatus for producing a fog. 3,141,615, 7-21-64, Cl. 239-8.

Waldron, Felix W., H. H. Green, and W. D. Bennett, to Dunlop Rubber Co. Ltd. Method and apparatus for making continuous lengths of rubberized bias-cut fabric from a tubular length. 3,157,545, 11-17-64, Cl. 156-184.

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Waldrop, Tom C., to Empire Rubber Co. Swab cup structures. 3,148,597, 9-15-64, Cl. 92-241.

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Waleffe, Jose E., Jenny, and K. Muller, to Brown-Boveri & Co., Ltd. Pocket combination for extension for speed and load range of awm supercharger. 3,120,920, 2-11-64, Cl. 230-69.

Wales, Nathaniel B., Jr., to Monroe Calculating Machine Co. Selective rotary print member. 3,144,820, 8-18-64, Cl. 101-91.

Wales, Nathaniel B., Jr., to Monroe Calculating Machine Co. Tape actuated movable mechanical writing head. 3,145,822, 8-25-64, Cl. 197-1.

Wales, Nathaniel B., Jr., to Monroe International Corp. Display device having magnetically controlled plural indicia plates. 3,153,227, 10-13-64, Cl. 340-324.

Wales, Nathaniel B., Jr. Pet animal shelter. 3,160,139, 12-8-64, Cl. 139-11.

Walinski, Edward L., to Victor Mfg. & Gasket Co. Method for molding fluid seals. 3,154,616, 10-27-64, Cl. 264-266.

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Walker, Brooks, and F. W. Kertell: said Kertell assor. to said Walker. Carburetor mixture control. 3,151,604, 10-6-64, Cl. 123-119.

Walker, Brooks, and F. W. Hall. Variable maximum throttle position for engine. 3,157,167, 11-17-64, Cl. 123-103.

Walker, Chapman J., to Curtiss-Wright Corp. Propulsion system for air borne ground effect vehicles. 3,150,732, 9-29-64, Cl. 180-7.

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Clarke, Maurice G., and Walker. 3,143,682.

Walker, Daniel W., to E. K. Orr. Blinds. 3,130,775, 4-28-64, Cl. 160-172.

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Walker, Darrell W., and E. L. Czenkusch, to Phillips Petroleum Co. Ethylene polymerization with supported nickel bis(cyclopentadienyl) catalyst. 3,134,824, 5-26-64, Cl. 260-683.15.

Walker, Darrell W., and E. L. Czenkusch, to Phillips Petroleum Co. Supported cobalt catalysts and their use. 3,157,711, 11-17-64, Cl. 260-683.9.

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Walker, George W., deceased; J. M. Theiler and H. E. McGill, executors, to A. F. Wintercorn. Method and apparatus for separating ore particles. 3,123,551, 3-3-64, Cl. 209-29.

Walker, Harold H. Submarine vehicle. 3,160,133, 12-8-64, Cl. 114-16.

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Walker, Harry M., and C. E. Beck, Jr., to W. D. Whitney. Variable pitch propeller. 3,116,794, 1-7-64, Cl. 170-160.47.

Walker, Henry C., to Western Electric Co., Inc. Overload release tap holder. 3,134,997, 6-2-64, Cl. 10-135.

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Walker, James H., and G. J. Pietrangeli, to United States of America, Navy. Hypersonic aircraft. 3,146,971, 9-1-64, Cl. 244-15.

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Cavallero, Louis T., McKellar, and Walker. 3,154,303.

- Walker, Jay P., and R. A. Hodgson, to National Tank Co. Methods and means for treating and automatically transferring custody of petroleum. 3,135,113, 6-2-64, Cl. 73-200.
- Walker, John C. F., III, to The National Cash Register Co. Data storage system. 3,146,428, 8-25-64, Cl. 340-174.
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- Walker, Ronald E., to Phil Wood Industries. Reciprocating telescoping-piston hydraulic motor. 3,136,221, 6-9-64, Cl. 91-168.
- Walker, Ronald E., to Phil Wood Industries, Ltd. Cushioned-stroke reciprocating hydraulic motor. 3,138,066, 6-23-64, Cl. 91-25.
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- Walkup, John H., and J. G. Leech, to West Virginia Pulp and Paper Co. Continuous starch enzymatic conversion process. 3,149,049, 9-15-64, Cl. 195-31.
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- Wall, Byron T., to New Jersey Bank and Trust Co. Dishwasher impeller assembly having a change of pace mechanism therefor. 3,143,296, 8-4-64, Cl. 239-242.
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- Wallace, George A., to The Globe Hoist Co. Automobile hoist. 3,117,652, 1-14-64, Cl. 187-8.59.
- Wallace, George A., to The Globe Hoist Co. Frame engaging unit for vehicle hoists. 3,149,699, 9-22-64, Cl. 187-875.
- Wallace, H. W., & Co., Ltd.: See—
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- Wallace, James L., and G. C. Vincent, said Wallace assor. to Monsanto Co. Apparatus for continuously advancing plastic materials along the flights of an extruder screw. 3,160,915, 12-15-64, Cl. 18-12.
- Wallace, Jeffrey J., to J. T. Gordin, J. R. Gillman, and G. G. Potts. Cotton gin with slidably mounted breasts. 3,162,902, 12-29-64, Cl. 19-59.
- Wallace, Jeffrey J., to J. T. Gordin, J. R. Gillman, and G. G. Potts. Cotton gin with novel hulling and ginning rib construction. 3,162,903, 12-29-64, Cl. 19-59.
- Wallace, Jeffrey J., to J. T. Gordin, J. R. Gillman, and G. G. Potts. Saw cylinders of cotton gins. 3,162,904, 12-29-64, Cl. 19-63.
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- Wallace, John H., and P. J. Collieran, to Emerson Electric Co. Plural motor system for position synchronization. 3,149,273, 9-15-64, Cl. 318-70.
- Wallace, John T., to Eastman Kodak Co. Article storage and retrieval device. 3,140,009, 7-7-64, Cl. 221-2.
- Wallace, Joseph E., to International Business Machines Corp. Control apparatus using shockwave energy. 3,160,723, 12-8-64, Cl. 200-83.
- Wallace, Joseph W., to Reynolds Metals Co. Collapsible container. 3,119,508, 1-28-64, Cl. 220-6.

- Wallace, Kurt F., to Ampex Corp. Signal processing means. 3,131,257, 4-28-64, Cl. 178-7.2.
- Wallace, Paul F., to Aluminum Co. of America. Enamelled aluminous metal product. 3,149,001, 9-15-64, Cl. 117-129.
- Wallace, Richard B., to The Oakland Corp. Method and apparatus for device having a friction plug producing rotatably inserted therein. 3,157,894, 11-24-64, Cl. 10-72.
- Wallace, Richard B., and R. J. Ebbert, to The Oakland Corp. Automatic pilot device. 3,148,654, 9-15-64, Cl. 114-144.
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- Wallace, William A., and R. F. Pecha, to Continental Aviation and Engineering Corp. Variable compression ratio piston. 3,156,162, 11-10-64, Cl. 92-82.
- Wallace, William A., T. J. Pearsall, and W. P. Mansfield, said Wallace and said Pearsall, assors. to Continental Aviation and Engineering Corp. Speed compensated variable compression ratio piston and valve. 3,161,112, 12-15-64, Cl. 92-82.
- Wallace, William E., and W. H. Armento, to General Aniline & Film Corp. Azo dyes containing quaternary ammonium substituents. 3,148,181, 9-8-64, Cl. 260-207.
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- Wallar, Howard C., to Owens-Illinois Glass Co. Apparatus and method for forming hollow glass articles. 3,151,968, 10-6-64, Cl. 65-71.
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- Wallen, Horace E., to The Ryan Aeronautical Co. Lock ring joint for cylindrical pipes and casings. 3,120,402, 2-4-64, Cl. 285-305.
- Wallenberg, Fritz, and W. G. Hill, to General Aniline & Film Corp. Adjustable fluid clutch. 3,120,299, 2-4-64, Cl. 192-58.
- Wallenbrock, Ralph E., to Whirlpool Corp. Refrigeration apparatus. 3,137,146, 6-16-64, Cl. 62-419.
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- Waller, Gustav M., to Burgess-Norton Mfg. Co. Method of making valve lifters. 3,131,470, 5-5-64, Cl. 29-471.1.
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- Waller, Robert W., and G. W. Cox, to Computer Control Co., Inc. Coding mechanism. 3,120,656, 2-4-64, Cl. 340-347.
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- Wallis, Wilhelm E., to The Dow Chemical Co. Process for preparing 2-imidazolidinones. 3,119,834, 1-28-64, Cl. 260-309.7.
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- Ward, Clarence J., and J. N. Sandman. Fish hook removal device. 3,132,438, 5-12-64, Cl. 43-53.5.
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- Ward, George C.: See—
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- Ward, Harlan R., to National Computer Systems, Inc. Binary printer with decimal display. 3,120,800, 2-11-64, Cl. 101-72.
- Ward, Henry D., Jr., C. D. Nitehie, and B. C. Dent, to Koppers Co., Inc. Ink fountain. 3,116,688, 1-7-64, Cl. 101-350.
- Ward, James J., to The Garrett Corp. Method of operating monopropellant gas generators and preconditioning mixture therefor. 3,157,990, 11-24-64, Cl. 60-35.4.
- Ward, James S., to Ward & Saks, Inc. Articulated mask. 3,134,984, 6-2-64, Cl. 2-206.
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- Yost, Richard H., and Ward. 3,118,491.
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- Ward Products Corp.: See—
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- Watts, Walter A. H., to The P. & M. Co. (England) Ltd. Rail and flange lubricating apparatus. 3,147,822, 9-8-64, Cl. 184-3.
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- Gruke, Carl A., and Watts. 3,131,089.
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- Webb, James E., administrator of the National Aeronautics and Space Administration with respect to an invention of J. H. Laub, and F. F. Batsen. Slit regulated gas journal bearing. 3,132,903, 5-12-64, Cl. 308-9.
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- Weber, Robert L., III. Automatic aerosol dispenser. 3,150,800, 9-29-64, Cl. 222-70.
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- Weber, Rudolf, and P. Kaiser, to Messrs. Gebrüder Junghans Aktiengesellschaft. Percussion fuse for projectiles without riding. 3,162,126, 12-22-64, Cl. 102-78.
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- White, Charles L. Adjustable tuning indicator for pedal-tuned kettledrums. 3,163,076, 12-29-64, Cl. 84-419.
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- White, Jonathan W., Jr., C. L. Farrar, F. E. Moeller, and A. W. Woodrow, to United States of America, Agriculture. Method of repelling bees with acetic and propionic acids. 3,422,473, 2-25-64, Cl. 167-22.
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- Tupman, Kenneth, and White. 3,125,511.
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- Spengler, Robert H., and Brolund. 3,150,551.
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- Whittaker, Norman: See—
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Wilcoxon, Leon C.: To Mayrath Machinery Co., Inc. Motor mount for conveyors. 3,156,341, 11-10-64, Cl. 198-233.

Wilcoxon, Leslie S.: To The Babcock & Wilcox Co.: Chemical and heat recovery apparatus. 3,161,475, 12-15-64, Cl. 23-262.

Wild, James H., J. F. Wood, and G. Woods, to Imperial Chemical Industries Ltd.: Manufacture of polyurethane foams. 3,139,410, 6-30-64, Cl. 260-2.5.

Wild, James H., and F. E. G. Tate, to Imperial Chemical Industries Ltd.: Polymerization of organic isocyanates. 3,144,452, 8-11-64, Cl. 260-248.

Wild, Otto, Jr., to Veeder-Root Inc.: Resetting mechanism for counters. 3,142,442, 7-28-64, Cl. 235-144.

Wild, Werner.: Method for determining the conception-free period in a woman. 3,141,740, 7-21-64, Cl. 23-230.

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Wilde, Bertrand E., deceased, by M. I. H. Bethell, administratrix, to Monsanto Chemicals Ltd.: N-cycloalkyl oxanilines. 3,123,585, 3-3-64, Cl. 260-45.9.

Wilde, Howard P., Sr.: Game board. 3,116,928, 1-7-64, Cl. 273-136.

Wilde, James H.: To Small Business Administration. Nuclear radiation glow tube indicator and calibration means. 3,134,901, 5-26-64, Cl. 250-83.

Wilde, James W.: Skate sharpening device. 3,125,833, 3-24-64, Cl. 51-102.

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Wildenhayn, Reginald, to Gebrüder Heyl Chemische Fabrik K.G.: Stabilized solutions of metal-specific indicator dyes. 3,159,586, 12-1-64, Cl. 252-408.

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Smiley, William D., and Wildner. 3,149,411.

Wildner, Charles R.: See—
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Wildner, Gene R.: To Monsanto Co.: Alicyclic oxanilines. 3,138,640, 6-23-64, Cl. 260-571.

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Lang, Harold M., and Wildner. 3,132,062.

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Wildner, Leslie N.: To Bell Telephone Laboratories, Inc.: Time delay switch. 3,133,165, 5-12-64, Cl. 200-34.

Wildner, Perry W., Jr., and R. T. Bonsall, Jr., to Pennsalt Chemicals Corp.: Centrifugal separation process and apparatus. 3,140,257, 7-7-64, Cl. 210-51.

Wildner, Stuart, Jr., to General Motors Corp.: Compressor blade and manufacture thereof. 3,132,841, 5-12-64, Cl. 253-77.

Wilders, Johannes H. A., and P. J. N. van den Kroonenberg, to Chemische Fabriek L. van der Grinten N.V.: One-component diazotype process and material comprising a diazonium compound and an orthophosphate. 3,123,472, 3-3-64, Cl. 96-49.

Wilders, Johannes H. A., and W. J. van Rhijn, to Chemische Fabriek L. van der Grinten N.V.: Water-fast two-component diazotype paper. 3,140,181, 7-7-64, Cl. 96-75.

Wildhaber, Ernest.: Hob, and method and means for using the same. 3,132,411, 5-12-64, Cl. 29-103.

Wildhaber, Ernest.: Screw pump unit. 3,146,723, 9-1-64, Cl. 103-118.

Wildhaber, Ernest.: Rotary gear-shaped tool for perfecting gears and method and means for using the same. 3,147,535, 9-8-64, Cl. 29-103.

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Wildt, Paul, and G. R. Koch, to McGraw-Edison Co.: Accumulator for hydraulic systems. 3,136,340, 6-9-64, Cl. 138-31.

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Wildy, Ronald G., and E. C. Snelling, to North American Philips Co., Inc.: Ferromagnetic pot-core assemblies. 3,163,829, 12-22-64, Cl. 330-83.

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Wile, Daniel D., to Recold Corp.: Refrigerated display and storage fixture. 3,139,737, 7-7-64, Cl. 62-256.

Wiles, Alfred A.: Tire mounting and demounting apparatus. 3,139,137, 6-30-64, Cl. 157-1.1.

Wiles, Charles R., and D. L. Russell, to The Dow Chemical Co.: Continuous molding process. 3,159,694, 12-1-64, Cl. 264-53.

Wiles, Charles R., and D. L. Russell, to The Dow Chemical Co.: Continuous molding apparatus. 3,161,912, 12-22-64, Cl. 18-6.

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Wiles, John F.: Available lifter for a disposable bottle crown cap. 3,120,140, 2-4-64, Cl. 81-3.1.

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Wiley, Lawrence G.: To AMP Inc.: Pulse generator employing triggerable solid state switches. 3,154,694, 10-27-64, Cl. 307-88.5.

Wiley, Paul F.: To The Upjohn Co.: Actinospectinolic acid and process for preparing. 3,137,708, 6-16-64, Cl. 260-347.3.

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Wilfert, Karl, and B. Barényi, to Daimler-Benz Aktiengesellschaft.: Elastic bearing construction. 3,159,391, 12-1-64, Cl. 267-63.

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- Wilkins, Stanley C. Semitrailer with elevator. 3,138,269, 6-23-64, Cl. 214-75.
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- Wilkinson, George F., Jr., to Western Electric Co., Inc. Apparatus for testing wave transmission lines including helical transmission line and wave distorting means. 3,161,825, 12-15-64, Cl. 324-58.
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- Wilkinson, Peter A., and J. C. Tebb, to Glaxo Group Ltd. Purification of pseudo-ionone. 3,161,684, 12-15-64, Cl. 260-593.
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- Willard, Charles L., Jr. Machine for manufacturing torsion springs. 3,144,886, 8-18-64, Cl. 140-71.
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- Willard, Frank G., and F. Di Nicolantonio, to Westinghouse Electric Corp. Alternate signal providing apparatus comprising logic elements. 3,121,842, 2-18-64, Cl. 328-57.
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- Willems, Jozef F., R. J. Thiers, and J. L. De Munck, to Gevaert Photo-Producten N.V. Light-sensitive colloid silver halide photographic elements. 3,158,484, 11-24-64, Cl. 96-107.
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- Willems, Peter. Apparatus for treating material. 3,125,305, 3-17-64, Cl. 241-261.
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- Williams, Beverly E., to Hodges Research and Development Co. Processes of tenderizing meat using ante-mortem enzyme injection and post-mortem water injection. 3,122,440, 2-25-64, Cl. 99-107.

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- Wilmotte, Raymond M. Radio direction finding systems. 3,120,000, 1-28-64, Cl. 343-113.
- Wilmotte, Raymond M. Optical information storage and readout circuits. 3,160,859, 12-8-64, Cl. 340-173.
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- Wilska, Alvar P., to Philips Electronics and Pharmaceutical Industries Corp. Column for electron microscopes. 3,150,256, 9-22-64, Cl. 250-49.5.
- Wilska, Alvar P., to Philips Electronics and Pharmaceutical Industries Corp. Electron beam aperture plate. 3,150,257, 9-22-64, Cl. 250-49.5.
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Wink, James B., and C. L. Howe, to General Electric Co. Electron discharge device. 3,132,277, 5-5-64, Cl. 313-146.

Winkel, Herbert C., K. G. McGowan, and C. H. McAlpine, to Winkel Machines Co., Inc. Battery making machines. 3,157,269, 11-17-64, Cl. 198-23.

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Winkel, Herbert C., McGowan, and McAlpine. 3,157,269.

Winkler, Alfred: See—
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Winkler, Alfred, to Agfa Aktiengesellschaft. View finder with adjustable framing plates for cameras with interchangeable objectives. 3,118,014, 1-14-64, Cl. 88-1.5.

Winkler, Alfred, and D. Engelsmann, to Agfa Aktiengesellschaft. Camera controls. 3,125,010, 3-17-64, Cl. 95-10.

Winkler, Alfred, and W. Hofman, to Agfa Aktiengesellschaft. Film magazine for cameras. 3,143,050, 8-4-64, Cl. 95-31.

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Winkler, De Loss E., and G. W. Hearne, to Shell Oil Co. Olefin polymerization process. 3,147,238, 9-1-64, Cl. 260-93.7.

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Winkler, John T., to Radio Corp. of America. Converting systems. 3,153,228, 10-13-64, Cl. 340-347.

Winkler, Richard, and K. Dunnebler. Candy filling machine. 3,135,225, 6-2-64, Cl. 107-1.

Winkler, Richard, and K. Dunnebler, to Berkley Machine Co. Holder for supporting a stack of blanks in an envelope making machine. 3,140,090, 7-7-64, Cl. 271-61.

Winkler, Richard, and K. Dunnebler, to Berkley Machine Co. Apparatus for producing openings in sheet material for the manufacture of window envelopes. 3,159,069, 12-1-64, Cl. 83-302.

Winkler, Vladimir A. Head gasket for diesel engine. 3,156,224, 11-10-64, Cl. 123-41.83.

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Winks, Fred H., and H. G. Wanser. Counter voltage track circuits. 3,145,002, 8-18-64, Cl. 246-33.

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Winn, John. Internal combustion engine. 3,139,074, 6-30-64, Cl. 123-51.

Winnen, Franklyn E., to Erickson Tool Co. Slow speed steering control for jet propelled boats. 3,159,134, 12-1-64, Cl. 115-12.

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Winsche, Warren E., and M. W. Davis, Jr., to United States of America. Atomic Energy Commission. Method of dehydrating and insolubilizing an aqueous nuclear reactor waste solution. 3,152,984, 10-13-64, Cl. 210-24.

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Winship, Ralph D., to Combustion Engineering, Inc. Live steam reheater. 3,130,780, 4-28-64, Cl. 165-163.

Winship, Richard S. Multiple-flux electrical reed relay. 3,134,867, 5-26-64, Cl. 200-87.

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Winslow, Charles A., to N. E. Fuller, and C. M. Farmer. Combined centrifuge and filtering device. 3,127,255, 3-31-64, Cl. 55-178.

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Winstead, Thomas W., to Hedwin Corp. Two-piece closure fitting for plastic containers. 3,124,282, 3-10-64, Cl. 222-569.

Winston, Bertram. Locomotive aerators for fish tanks. 3,130,248, 4-21-64, Cl. 264-129.

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Johnson, Wayne R. 3,154,371.

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Winter, Billy B. Device for hill dropping corn. 3,142,274, 7-28-64, Cl. 111-34.

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Winter, Otto, and H. Eichmeyer, to Olympia Werke AG. Cover arrangement for business machines. 3,118,246, 1-21-64, Cl. 45-68.1.

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Winter, Paul H., to Pass & Seymour, Inc. Integral weather-proof plastic lid and hinge for electrical outlets. 3,127,048, 3-31-64, Cl. 220-35.

Winter, Paul H., to Pass & Seymour, Inc. Dead-back grounding outlet with reinforced cover. 3,148,926, 9-15-64, Cl. 339-14.

- Winter, Paul H., to Pass & Seymour, Inc. Interchangeable grounding outlet with non-rigid top. 3,148,927, 9-15-64, Cl. 339-14.
- Winter, Peter H., and T. Fitzpatrick, to Vero Precision Engineering Ltd. Method of making wiring boards. 3,148,438, 9-15-64, Cl. 29-155.5.
- Winter, Rudolph R. Depth micrometer. 3,128,559, 4-14-64, Cl. 33-170.
- Wintercorn, Andrew F.: See—
- Hartnett, Maurice P. 3,150,720.
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- Anetsberger, Joseph F., and Winterfeldt. 3,124,900.
- Wintermute, Dean E. X-ray devices for use on the human body. 3,149,257, 9-15-64, Cl. 313-60.
- Winters, Berl C., to Sperry Rand Corp. Embedded heater cathode. 3,117,249, 1-7-64, Cl. 313-337.
- Winters, Daniel R., to Crane Products Mfg. Co., Inc. Proximity alarm. 3,125,751, 3-17-64, Cl. 340-258.
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- Bernstein, Joseph M., and Winters. 3,121,140.
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- Abel, Martin L., and Winters. 3,132,268.
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- Winther, Jerrold B., to Eaton Mfg. Co. Eddy-current apparatus. 3,121,180, 2-11-64, Cl. 310-105.
- Winther, John E. Activated display device. 3,120,068, 2-4-64, Cl. 40-106.21.
- Winther, Kjeld C., to Storm-Vulcan, Inc. Crankshaft balancing means. 3,128,582, 4-14-64, Cl. 51-237.
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- Winther, Robert O., to King-Seely Thermos Co. Direct current electric motor. 3,156,838, 11-10-64, Cl. 310-42.
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- Winthrop, Stanley O., and M. A. Davis, to American Home Products Corp. Dibenzol [a,d] [1,4] cyclooctadienes. 3,133,935, 5-19-64, Cl. 260-313.
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- Winton, Sidney V. Ventilating apparatus. 3,125,869, 3-24-64, Cl. 62-37.
- Winton, Sidney V., to Randall Mfg. Co., Inc. Cutter. 3,159,913, 12-8-64, Cl. 30-252.
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- Wintriss, George. Magnetic contact signal device for automatic machines. 3,153,474, 10-20-64, Cl. 198-40.
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- Wise, Glenn E. Scrubbing sponge for drinking vessels. 3,135,003, 6-2-64, Cl. 15-244.
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- Wise, James C., to Thompson Ramo Wooldridge Inc. Auxiliary power unit. 3,123,325, 3-3-64, Cl. 244-58.
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- Wise, Ralph H., to The Anderson Co. Motion-transmitting mechanism. Re. 25,606, 6-30-64, Cl. 74-424.8.
- Wise, Ralph H. Windshield wiper blade. 3,131,414, 5-5-64, Cl. 15-250.42.
- Wise, Ralph H. Windshield wiper. 3,132,367, 5-12-64, Cl. 15-250.42.
- Wise, Ralph H. Windshield wiper blade. 3,138,817, 6-30-64, Cl. 15-250.42.
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- Wise, Robert D., and D. F. Corsette, to The Drackett Co. Spout type container closure. 3,135,441, 6-2-64, Cl. 222-541.
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- Wishon, Berhl E., D. E. Reardon, and D. F. Stock, to Harbison-Walker Refractories Co. Method and apparatus for testing ceramic articles. 3,121,323, 2-18-64, Cl. 73-88.
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- Wisnar, William F., to Specialties Development Corp. Apparatus for generating gaseous mixtures. 3,163,014, 12-29-64, Cl. 62-48.

- Wisner, Marco, L. R. Le Bras, and J. R. Pfeffer, to Pittsburgh Plate Glass Co. Flame retardant polyurethane foams. 3,134,742, 5-26-64, Cl. 260-2.5.
- Wisner, Marco, L. R. Lebras, J. R. Pfeffer, and J. F. Foote, to Pittsburgh Plate Glass Co. Polymers of organic polyisocyanates and polyether polyols derived from sucrose and methods for the preparation thereof. 3,153,002, 10-13-64, Cl. 260-2.5.
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- Wisotzky, Reuben, and B. Edesess, to American Bitrite Rubber Co., Inc. Process of making elastomeric floor or wall covering and step product therefor. 3,152,002, 10-6-64, Cl. 117-21.
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- Wist, Abund O. Square wave oscillator independent of supply voltage variations. 3,143,713, 8-4-64, Cl. 331-52.
- Wistreich, John G., and P. Baker, to The British Iron and Steel Research Association. Control systems of forging presses. 3,118,326, 1-21-64, Cl. 78-13.
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- Witford, John M., and L. A. Cullio, to American Cyanamid Co. Process for the preparation of spherical contact particles. 3,154,603, 10-27-64, Cl. 264-15.
- Witherell, Charles E., to The International Nickel Co., Inc. Copper-nickel alloy welding electrode. 3,124,479, 3-10-64, Cl. 117-205.
- Witherell, Charles E., to The International Nickel Co., Inc. Manganese-containing flux composition. 3,125,470, 3-17-64, Cl. 148-24.
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- Witherspoon, Romeo R., to General Motors Corp. Arc-resistant electrical contact having a cadmium-copper alloy surface. 3,154,660, 10-27-64, Cl. 200-166.
- Witherspoon, Romeo R., to Union Carbide Corp. Fuel cell electrode conditioning. 3,160,530, 12-8-64, Cl. 136-120.
- Withey, Edward L. Three-dimensional display apparatus. 3,138,796, 6-23-64, Cl. 343-7.9.
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- Witow, Morris I., to United States of America, Navy. Electrically controlled directional warhead. 3,136,251, 6-9-64, Cl. 102-67.
- Witschi, Fritz, to IVF Bandage Machinery Co. Schaffhausen. Continuous production of packages containing a zig-zag folded strip of wadding or cotton wool material. 3,151,376, 10-6-64, Cl. 28-72.
- Witska, Thomas E., to H. S. Clardy. Sewer pipe leak stopper. 3,144,880, 8-18-64, Cl. 138-97.
- Witt, Donald L., and R. Vaughn, to United States of America, Navy. Centrifugal pump with thrust balancing means. 3,123,010, 3-3-64, Cl. 103-103.
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- Heckel, Hermann, and Witt. 3,151,107.
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- Wittenberg, Gerhard, W. Seidensticker, G. Hippe, and G. Twel-siek, to Seidensticker Herrenwaschfabriken G.m.b.H. Apparatus for folding garments, shirts and the like. 3,122-201, 2-25-64, Cl. 223-37.
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- Witzky, Julius E. Stratified spark ignition internal combustion engine. Re. 25,578, 5-19-64, Cl. 123-32.
- Witzky, Julius E., and J. M. Clark, Jr., to Southwest Research Institute. Stratified spark ignition internal combustion engine. 3,154,059, 10-27-64, Cl. 123-32.
- Wloddek, Stanley T., to Union Carbide Corp. Corrosion-resistant alloy. 3,135,603, 6-2-64, Cl. 75-170.
- Wloddek, Stanley T., to Union Carbide Corp. Vanadium-Columbium alloys. 3,136,631, 6-9-64, Cl. 75-134.
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Woo, Way D., to Honeywell Inc. Pattern sensitivity compensation in high pulse density recording. 3,159,840, 12-1-64, Cl. 346-74.

Wood, Arthur B., to Admart, Inc. Beverage cup-holder for motor-vehicle doors. 3,128,983, 4-14-64, Cl. 248-208.

Wood, Arthur B., to Admart, Inc. Refreshment-tray-forming templet. 3,145,848, 8-25-64, Cl. 211-88.

Wood, Basil, to Merz & McLellan Services Ltd. Protective arrangements for prime movers coupled to electric generators. 3,156,848, 11-10-64, Cl. 317-19.

Wood, Benjamin G. Reciprocating wing helicopter adapted to be manually powered. 3,162,400, 12-22-64, Cl. 244-17.11.

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Wood, Charles, and A. E. Meixner, to Industrial Instruments, Inc. Thermoelectric dew point hygrometer. 3,142,989, 8-4-64, Cl. 73-336.

Wood, Charles, G. F. Schroeder, and O. Tischler, to General Precision Inc. Process of making a hall crystal. 3,162,932, 12-29-64, Cl. 29-155.5.

Wood, Charles E., deceased; by G. S. Wood, administratrix, 1/4 to H. W. Aker, 1/4 to J. W. Re., and 1/4 to G. S. Wood. Method and apparatus for dewatering solids such as sand. 3,124,528, 3-10-64, Cl. 210-19.

Wood, Charles H., to Aurora Corp. of Illinois. Solenoid mounting means for pianos. 3,126,784, 3-31-64, Cl. 84-246.

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Wood, David L.: See—
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Wood, Ernest C.: See—
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Wood, Ernest C., 30% to R. G. LeVaux, and 30% to A. M. Brown. Pretied ligature splint. 3,130,727, 4-28-64, Cl. 128-326.

Wood, Frank B. Pecan peeler. 3,137,331, 6-16-64, Cl. 146-13.

Wood, Frank J., to The Plessey Co. Ltd. Memory matrix frames. 3,126,526, 3-24-64, Cl. 340-174.

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Wood, Garfield A., Jr., to Shakespeare Co. Drag construction for fishing reel. 3,136,497, 6-9-64, Cl. 242-84.51.

Wood, Garfield A., Jr. Fishing reel. 3,144,217, 8-11-64, Cl. 242-84.21.

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Wood, Charles. 3,124,528.
Wood, Charles E. 3,124,528.

Wood, George C. Rotary side delivery rakes. 3,146,571, 9-1-64, Cl. 66-377.

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Wood, Jack A.: See—
Rogers, Robert T. 3,156,355.

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Wood, Norman H., and L. B. Nesbitt, to General Electric Co. Cryogenic apparatus. 3,130,563, 4-28-64, Cl. 62-404.

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Wood, Thomas F., and J. Angiolini, to The Givaudan Corp. Process for preparing trialkyl-1,1-dimethylindans. 3,152,192, 10-6-64, Cl. 260-668.

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- York, Raymond P., and T. M. Carmichael, to Morpul Research Corp. Bobbin transfer arm for looms. 3,120,860, 2-11-64, Cl. 139-244.
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- Yorker, Oscar B., and J. R. Pechman, to Yorker & Sons, Inc. Spouted cap and closure therefor. 3,133,310, 5-19-64, Cl. 15-592.
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Young, Lewis D., to Douglas Young, Inc. Display box. 3,127,988, 4-7-64, Cl. 206-45.2.
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- Babel, Rudolf M., to United Shoe Machinery Corp. Rivet setting tool. 198,230, 5-19-64, Cl. D54-14.
- Baerl, Martha L. H. Plate or similar article. 198,223, 5-19-64, Cl. D44-15.
- Baker, Edgar G., to Gentex Corp. Buoyant belt. 197,820, 3-24-64, Cl. D71-1.
- Baker, Martin E., to Southern Instruments Ltd. Automatic telephone answering and recording unit. 198,378, 6-9-64, Cl. D26-14.
- Baker, William O., and E. A. Rodriguez, to Shamrock Pool Equipment Co. Skim filter unit or similar article. 198,117, 4-28-64, Cl. D91-1.
- Baker, William O., and E. A. Rodriguez, to Swimquip, Inc. Combined filter and stand or similar article. 198,153, 5-5-64, Cl. D91-1.
- Baldwin, D. H. Co.: See—
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- Barckel, Chester J. Reclining chair for vehicles. 198,783, 8-4-64, Cl. D15-8.
- Barckel, Chester J. Vehicle seat. 198,784, 8-4-64, Cl. D15-8.
- Barényi, Bela: See—
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- Barker, Joan. Foot bath. 197,948, 4-14-64, Cl. D4-4.
- Barlow, Gordon A., and N. T. McFarland, to Marvin Glass & Associates. Combined toy mixer and scale. 199,249, 9-29-64, Cl. D34-15.
- Barna, Theodore B., G. W. Florian, and P. R. Haskell. Chain saw engine unit. 198,895, 8-11-64, Cl. D83-3.
- Barnard, John P., to Terry Plastics. Boat. 198,882, 8-11-64, Cl. D71-1.
- Barnes Mfg. Co.: See—
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- Barnett, Louis H., and J. D. Davis, to Loma Industries. Laundry basket. 199,096, 9-8-64, Cl. D58-4.
- Barnette, Lynn M.: See—
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- Barney, Allan F. Pistol grip or similar article. 199,064, 9-8-64, Cl. D30-1.
- Barr, Roger D. Syringe. 199,110, 9-8-64, Cl. D83-12.
- Barr, Roger D. Syringe. 199,167, 9-15-64, Cl. D83-12.
- Barrett, Leon. Combined table, television stand, lamp and antenna. 199,126, 9-15-64, Cl. D33-14.
- Bartley, Keith D., and H. Dreyfuss, to Bell Telephone Laboratories, Inc. Panel type telephone. 197,279, 1-7-64, Cl. D26-14.
- Bascomb, Frank C., and E. Mayer, to Boulevard Electronics, Inc. Hydrotherapy bath unit. 199,715, 12-1-64, Cl. D83-1.
- Basic Wire Products, Inc.: See—
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- Basinals, Marjorie R. Bathroom utility receptacle and cover combination. 198,430, 6-16-64, Cl. D4-3.
- Bastin, Edgar J. Photofluorographic camera. 197,688, 3-10-64, Cl. D83-1.
- Bates, Jack R. Golf-club cover or similar article. 198,093, 4-28-64, Cl. D34-5.
- Bates Mfg. Co., The: See—
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- Baughman, Milo, to Thayer Coggins, Inc. Reclining chair. 198,452, 6-16-64, Cl. D15-11.
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- Bausch & Lomb Inc.: See—
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- Beach, Theodore L., Jr. Rear view mirror. 199,120, 9-15-64, Cl. D14-8.
- Beale, Stanley E., to Applied Development Corp. Extruded member for equipment drawers or the like. 199,354, 10-13-64, Cl. D13-6.
- Beall, Glenn L., to Abbott Laboratories. Valve for medical apparatus and the like. 199,488, 11-3-64, Cl. D16-2.
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- Becerra, Roman. Television cabinet or similar article. 199,811, 12-15-64, Cl. D50-4.
- Beck, Phillip, to Jacques Kreisler Mfg. Corp. Display case for a lighter or similar article. 198,343, 6-2-64, Cl. D58-12.
- Becker, Frederick W., to Westinghouse Electric Corp. Probe-type control. 199,489, 11-3-64, Cl. D26-13.
- Becker, Raymond M., and T. F. Au Claire, Sr., to Permalum Industries, Inc. Grille unit. 199,759, 12-8-64, Cl. D54-2.
- Beckman, Frank, and G. Florian. Combined viewer and editor for motion picture film. 197,745, 3-17-64, Cl. D61-1.
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- Beddor, William N. Price card holder for price tag moldings. 199,020, 9-1-64, Cl. D1-3.
- Bedol, Alan, to The Marshall Mfg. Co. Twin tray carrier. 198,904, 8-18-64, Cl. D14-6.
- Bedser, Richard W. Chair. 197,713, 3-17-64, Cl. D15-1.
- Beesley, Robert L., and R. H. Matthias, to The Dow Chemical Co. Case for beverage bottles or the like. 198,868, 8-11-64, Cl. D58-5.
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- Behrendt, George W., to Wilson Athletic Goods Mfg. Co., Inc. Golf club head. 197,524, 2-18-64, Cl. D34-5.
- Belgh, Lauris L. Drive in restaurant. 197,596, 3-3-64, Cl. D13-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,225, 9-22-64, Cl. D91-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,226, 9-22-64, Cl. D91-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,227, 9-22-64, Cl. D91-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,228, 9-22-64, Cl. D91-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,229, 9-22-64, Cl. D91-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,230, 9-22-64, Cl. D91-1.
- Belner, John D., to International Patent Research Corp. Lawn sprinkler. 199,385, 10-13-64, Cl. D91-1.
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- Belke, William E., to Belke Mfg. Co. Fixture for supporting removable fingers of electroplating racks. 199,694, 12-1-64, Cl. D54-13.
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- Beltram, Victor R., to The Falls Steel Tube & Mfg. Co. Wire coil carrier. 197,393, 1-21-64, Cl. D80-10.
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- Bentley, George K., and G. W. Mathis, to McCray Refrigerator Co., Inc. Refrigerated display case. 198,422, 6-9-64, Cl. D80-11.
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- Berman, Matthew M. Ash tray. 199,012, 8-25-64, Cl. D85-2.
- Berman, Matthew M. Ash tray. 199,013, 8-25-64, Cl. D85-2.
- Berman, Matthew M. Ash tray. 199,014, 8-25-64, Cl. D85-2.
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- Boldt, Melvin H., to Automatic Canteen Co. of America. Phonograph cabinet. 198,231, 5-19-64, Cl. D56-4.
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- Breda, Albert. Automobile hood speedometer. 198,277, 5-26-64, Cl. D52-6.
- Bredon, Pat M. Teepee. 198,779, 8-4-64, Cl. D13-1.
- Breed, Charles P., and E. H. McCauley, to Sperry Rand Corp. Document sorter cabinet. 198,686, 7-21-64, Cl. D26-5.
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- Brenner, Roy L., to Kinkad Industries Inc. Curtain rod or the like. 197,771, 3-24-64, Cl. D21-1.
- Brenni, Raimondo, to Nepro Watch Paolo Spadini. Clock radio or similar article. 198,283, 5-26-64, Cl. D56-4.
- Brent, George T., to International Resistance Co. Electrical potentiometer. 197,772, 3-24-64, Cl. D26-1.
- Brett, John J., and A. Hohmann, to Consolidated Dynamics Corp. Time punch or similar article. 198,045, 4-21-64, Cl. D42-7.
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- Brewer, Robert. Lamp base or the like. 198,228, 5-19-64, Cl. D48-20.
- Brewer, Willie F., to Dealer Associates, Inc. Rotary tiller. 199,577, 11-17-64, Cl. D35-2.
- Briars, Weber, Inc.: See—
- Berenson, Philip D. 199,552.
- Bricklin, Malcolm N., to Handyman, Inc. Building. 198,074, 7-21-64, Cl. D13-1.
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- Brigham, Owsley H. Underwater diving light. 198,881, 8-4-64, Cl. D48-24.
- Brighton, John C., to Arvin Industries, Inc. Combined cover and holder for a refuse bag. 198,999, 8-25-64, Cl. D58-17.
- Brighton, John C., to Arvin Industries, Inc. Refuse holder. 199,053, 9-8-64, Cl. D114-3.
- Brill, Edward F., to Allis-Chalmers Mfg. Co. Vehicle. 198,067, 4-21-64, Cl. D71-1.
- Brill, Edward F., to Allis-Chalmers Mfg. Co. Top for a vehicle. 198,622, 7-14-64, Cl. D14-27.
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- Britton, Harrison J., to Hydromatics, Inc. Ball valve. 198,252, 5-19-64, Cl. D91-3.
- Brocken, Karl. Bottle carrying case. 198,591, 7-7-64, Cl. D58-5.
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- Brody, Philip M., and F. H. Rahr, to Wood Conversion Co. Ceiling tile or similar article. 199,185, 9-22-64, Cl. D18-2.
- Brody, Philip M., and F. H. Rahr, to Wood Conversion Co. Ceiling tile or similar article. 199,186, 9-22-64, Cl. D18-2.
- Bromley, Kenneth W., to Harold Leonard & Co., Inc. Rack for holding sugar packets. 197,436, 2-4-64, Cl. D44-24.
- Brook, Doris A. Garment hanger. 197,448, 2-4-64, Cl. D80-8.
- Bross, Helmut K., 50% to F. T. Johann. Handle for launching an aerial toy or the like. 198,697, 7-21-64, Cl. D34-15.
- Bross, Helmut K., 50% to F. T. Johann. Helicopter toy. 199,681, 12-1-64, Cl. D34-15.
- Brower, David F., and G. B. Hayward, to General Dynamics Corp. Machine for forming material by a pulsed, high intensity magnetic field. 197,278, 1-7-64, Cl. D26-1.
- Brown, George D. Combined lamp base and book rack. 198,638, 7-14-64, Cl. D48-20.
- Brown, James A. Animated toy. 199,741, 12-8-64, Cl. D34-15.
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- Brown, Thomas E., to Rexall Drug and Chemical Co. Butter dish or similar article. 197,980, 4-14-64, Cl. D44-5.
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- Buckingham, Donald A. Photocopying apparatus. 198,190, 5-12-64, Cl. D61-1.
- Bucknell, Ernest H., and I. A. Ward. Fountain brush. 197,458, 2-11-64, Cl. D9-2.
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- Burns, Fredrick B., and G. D'Ercoli, to E Z Paints Corp. Paint trimming applicator or the like. 198,564, 7-7-64, Cl. D9-2.
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- Burns, James O., to Ormston Burns Ltd. Control arm for a tremolo unit for a guitar. 198,714, 7-21-64, Cl. D56-1.
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- Deaver, Dann T., to Motor Wheel Corp. Wheel. 197,841, 3-31-64, Cl. D14-30.
- Deaver, Dann T., and R. M. Logghe, to Motor Wheel Corp. Wheel. 199,394, 10-20-64, Cl. D14-30.
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- Douglas, Livingston C., to Colgate-Palmolive Co. Dispenser top for a pressure can or similar article. 197,741, 3-17-64, Cl. D58-26.
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- Eriksson, George J., to Superior Concrete Accessories, Inc. Anchor for holding under tension the embedded cables of a prestressed concrete girder. 199,085, 9-8-64, Cl. D54—9.
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- Hendrick, David L., and J. R. Ridge, to Joe Lowe Corp. Frozen confection. 198,770, 7-28-64, Cl. D82-2.
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- Hendrick, David L., and J. R. Ridge, to Joe Lowe Corp. Frozen confection. 198,773, 7-28-64, Cl. D82-2.
- Hendrick, David L., and J. R. Ridge, to Joe Lowe Corp. Frozen confection. 198,774, 7-28-64, Cl. D82-2.
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- Herpich, William A., and D. W. Chaney, to Hercules Gallon Products, Inc. Bulk load body for a vehicle. 198,839, 8-11-64, Cl. D14-3.
- Herpich, William A., and D. W. Chaney, to Hercules Gallon Products, Inc. Bulk load body for a vehicle. 198,840, 8-11-64, Cl. D14-3.
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- Heslov, Simon. Bin dispenser. 198,889, 8-11-64, Cl. D80-9.
- Hess Oil & Chemical Corp.: See—
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- Heydon, John J., and D. W. Myers. Carbonated beverage container. 199,483, 11-3-64, Cl. D2-3.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,954, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,955, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,956, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,957, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,958, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,959, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,960, 4-14-64, Cl. D10-8.
- Heyer, Don, to Hyer Hardware Mfg. Co. Knob for doors, drawers, and the like. 198,613, 11-24-64, Cl. D10-8.
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- Carr, William J. 199,435.
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- Hiers, James E., and L. F. Wildgen, to Union Tank Car Co. Regenerating liquid container for water conditioner. 197,834, 3-24-64, Cl. D91-1.
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- Hill, Edward J. Pediatric urine collector. 199,294, 9-29-64, Cl. D83-1.
- Hill, Edward J. Tray for urinalysis equipment. 199,830, 12-15-64, Cl. D83-1.
- Hill, Edward J. Tongue blade. 199,946, 12-29-64, Cl. D83-12.
- Hill, Frank. Lawn mower. 197,659, 3-10-64, Cl. D40-1.
- Hill, Walter L., and H. B. Hoover, to Raytheon Co. Control knob. 198,030, 4-21-64, Cl. D26-13.
- Hill, Wendell L., and B. R. Gustafson. Rake head. 198,699, 7-21-64, Cl. D39-1.
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- Hilton, Herbert B. Butter dish. 197,434, 2-4-64, Cl. D44-5.
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- Van De Pavert, and Hines. 198,781.
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- Hirashiki, James. Foldable traversing screen. 198,640, 7-14-64, Cl. D54-2.
- Hirashiki, James. Foldable traversing screen. 198,641, 7-14-64, Cl. D54-2.
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- Hoffinger, Martin. Water filter unit for swimming pools. 199,952, 12-29-64, Cl. D91-1.
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- Johnson, James D. Child's savings bank. 197,783, 3-24-64, Cl. D34-11.
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- Johnson, Maurice V., Jr., to Sunkist Growers, Inc. Fruit engaging element for use in a conveyor for handling and sizing fruit. 198,993, 8-25-64, Cl. D54-13.
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- Jones, Charles E., and R. H. and W. G. Crowle, 1/2 each to Science Research Associates, Inc. and Delaware and Western Publishing Co., Inc. Nesting counting member for elementary arithmetic instruction. 199,440, 10-27-64, Cl. D25-1.
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- Jones, Charles E., and R. H. and W. G. Crowle, 1/2 each to Science Research Associates, Inc. and Delaware and Western Publishing Co., Inc. Nesting counting member for elementary arithmetic instruction. 199,440, 10-27-64, Cl. D25-1.
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Keller, Robert R. Grid core for a translucent building panel or similar article. 199,525, 11-10-64, Cl. D13-1.
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- Lewis, Robert B. Multiple student desk unit. 199,399, 10-20-64, Cl. D33-11.
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- Loesch, Ivan L., to Spacer Furnishings Corp. Chair carrier. 199,899, 12-29-64, Cl. D14-3.
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- Mel, Tsui K., to Ming Wah Electric Bulbs Factory. Letter for signs or the like. 199,777, 12-15-64, Cl. D1-12.
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- Senda, Tetsuo, and T. Sugiyama, to Noritake Co. (Cal.), Inc. Plate or similar article. 199,752, 12-8-64, Cl. D44-15.
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- Burlin, James N., and Seretny. 199,490.
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- Gurian, Kenneth J., and Service. 197,687.
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- Seymour, Merritt W., Jr., to Armstrong Cork Co. Acoustical tile. 197,971, 4-14-64, Cl. D18-2.
- Seymour, Merritt W., Jr., to Armstrong Cork Co. Acoustical tile. 197,972, 4-14-64, Cl. D18-2.
- Seymour Tool & Engineering Co., Inc.: See—
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- Shanok, Victor and J. P. Case for a clock or the like. 197,617, 3-3-64, Cl. D42-7.
- Shanok, Victor and J. P. Dispenser for paper towels or the like. 198,229, 5-19-64, Cl. D52-2.
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- Bunn, William E. L., and Vevit. 199,217.
- Harrison, Raymond D. 199,709.
- Shelman, Julius. Lock for zipper luggage and the like. 199,634, 11-24-64, Cl. D50-7.
- Shelman, Julius, to Crest Lock Co., Inc. Lock for zipper luggage and the like. 199,633, 11-24-64, Cl. D50-7.
- Shelare, Robert, and F. Makara. Combined toothpaste and toothbrush holder. 198,777, 8-4-64, Cl. D4-3.
- Sheldon, Florence. Carrying case for a cushion. 199,672, 12-1-64, Cl. D15-8.
- Shelzl, William. Chaise lounge or similar article. 197,843, 3-31-64, Cl. D15-11.
- Shepler, James A., to Owens-Illinois Glass Co. Bottle. 198,508, 6-23-64, Cl. D58-6.
- Sheppley, William S., Jr., to International Business Machines Corp. Tape reel. 199,650, 11-24-64, Cl. D61-1.
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- Sherman, H. B., Mfg. Co.: See—
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- Shiffman, Jerome. Box. 198,595, 7-7-64, Cl. D58-12.7.
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- Shinder, Anthony, to American Optical Co. Spectacle front. 199,933, 12-29-64, Cl. D57-1.
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- Shulkind, Solomon S. Pleated trousers. 198,121, 5-5-64, Cl. D3-17.
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- Sidwell, Webster S. Roofing shingle. 199,939, 12-29-64, Cl. D68-1.
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- Silverman, Leslie, to Welsh Mfg. Co. Filter element for a respirator. 199,344, 10-6-64, Cl. D83-1.
- Simeoni, Piero. Drinking mouthpiece for a can. 199,210, 9-22-64, Cl. D58-28.
- Simmons, Lovell R., H. H. Ray, and L. Rasberry, to M-R-S Mfg. Co. Body for a tractor. 197,886, 4-7-64, Cl. D14-3.
- Simmons, Lovell R., W. O. and H. H. Ray, to M-R-S Mfg. Co. Tractor frame. 198,841, 8-11-64, Cl. D14-3.
- Simon, Frank C. Grip for retractable dog leash. 199,669, 12-1-64, Cl. D12-2.
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- Siraganian, Edward A. and C. S. Combined vacuum printing frame, photocopier, light table and ruler. 199,467, 10-27-64, Cl. D61-1.
- Sitt, Eddie. Display hanger for jewelry. 198,516, 6-23-64, Cl. D80-8.
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- Sklar, Richard L. Combined pew and kneeler. 198,080, 4-28-64, Cl. D15-11.
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- Slaton, Leo R., to Swiss Harmony, Inc. Box. 197,988, 4-14-64, Cl. D58-12.
- Slaton, Leo R., to Swiss Harmony Inc. Box. 197,989, 4-14-64, Cl. D58-12.
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- Sleeman, William C., Jr., and T. A. Toll, to United States of America, National Aeronautics and Space Administration. Swept wing aircraft. 198,249, 5-19-64, Cl. D71-1.
- Sleeman, William C., Jr., and T. A. Toll, to United States of America, National Aeronautics and Space Administration. Supersonic aircraft. 199,104, 9-8-64, Cl. D71-1.
- Sleeman, William C., Jr., and T. A. Toll, to United States of America, National Aeronautics and Space Administration. Aircraft. 199,105, 9-8-64, Cl. D71-1.
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- Sloane, Theodore, and A. R. Wald. Humidity meter. 199,082, 9-8-64, Cl. D52-7.
- Slosberg, Earl M., to Bull-Rite Upholstery Co. Sofa. 198,450, 6-16-64, Cl. D15-11.
- Slosberg, Earl M., to Bull-Rite Upholstery Co. Sofa. 198,451, 6-16-64, Cl. D15-11.
- Small, George A. Wobble tail for fish lures. 199,824, 11-24-64, Cl. D31-4.
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- Smeton, Robert L. Hypodermic syringe or similar article. 198,659, 7-14-64, Cl. D83-12.
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- Smith, David B., to Acme Specialty Mfg. Co. Purse mirror. 199,719, 12-1-64, Cl. D86-10.
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- Smith, Frances M., to La Resista, Inc. Brassiere. 197,516, 2-18-64, Cl. D20-4.
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- Smith, Melbourne F., to Broyhill Furniture Factories. Room divider or the like. 198,317, 6-2-64, Cl. D33-1.
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- Smith, Melbourne F., Jr., to Broyhill Furniture Factories. Furniture pull. 198,836, 8-11-64, Cl. D10-8.
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- Smith, Melbourne F., Jr., to Broyhill Furniture Factories. Table. 199,316, 10-6-64, Cl. D33-14.
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- Smith, William J., to Frost Engineering Development Corp. Portable digital meter. 198,913, 8-18-64, Cl. D26-1.
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- Wexler, Donald A., B. Perlin, G. E. Boggio, and E. E. Molina, to Union Oil Co. of California. Service station. 198,837, 8-11-64, Cl. D13—1.
- Wheelock Signals, Inc.: See—
Russo, James E. 199,188.
- Whelan, James R.: See—
Price, Clarence A., Platte, and Whelan. 199,815.
- Whink Products Co.: See—
Anderson, David L., and O'Leary. 198,233.
- Whipple, Galt: See—
Syborg, Meredith M., and Bell. 199,395.
- Whirlpool Corp.: See—
Ferar, Montgomery, and Russell. 198,245.
Ferar, Montgomery, and Russell. 199,422.
Uhmman, William. 199,632.
- Wolske, Lawrence E. 198,413.
- White, Earl E., to Eastman Kodak Co. Projection reader printer. 198,550, 6-30-64, Cl. D61—1.
- White, George E., to J. A. Michael, d.b.a. Michael Mfg. Co. Agricultural implement carrier. 199,432, 10-27-64, Cl. D14—3.
- White, Philip H. Multi-spindle lathe. 197,353, 1-14-64, Cl. D54—6.
- White Castle System, Inc.: See—
Wilt, Grant M. 197,322.
- Whitehead, Richard K., Jr.: See—
Whitehead, Richard K., Sr., R. K. Whitehead, Jr., and Tubelung. 199,890.
- Whitehead, Richard K., Sr., R. K. Whitehead, Jr., and W. W. Tubelung. 199,890, 12-22-64, Cl. D93—3.
- Whitehouse, John H., to North & Judd Mfg. Co. Water closet. 198,122, 5-5-64, Cl. D4—3.
- Whitman, Robert L., to Handley Industries, Inc. Meter housing. 198,049, 4-21-64, Cl. D52—6.
- Wickenburg, Chester H., to Sunbeam Corp. Rotisserie or similar article. 198,962, 8-18-64, Cl. D81—10.
- Wiegand, Edwin L., Co.: See—
Ammerman, George E. 198,244.
- Wien, Carolyn G. Combined floor washer, waxer, and duster. 198,074, 4-28-64, Cl. D9—2.
- Wierzbicki, Julian J., to Sylvania Electric Products, Inc. Post supported floodlight or similar article. 199,367, 10-13-64, Cl. D48—31.
- Wilbrecht, Erwin H. Lint remover. 198,437, 6-16-64, Cl. D9—2.
- Wilcox, Lawrence R.: See—
Gunnion, Lyle B., and Wilcox. 197,532.
- Wildgen, Leo F.: See—
Brainard, Benson C., and Wildgen. 197,536.
Hiers, James E., and Wildgen. 197,833.
Hiers, James E., and Wildgen. 197,834.
- Wildgen, Leo F., to Arthur Salm, Inc. Memo pad holder. 197,870, 3-31-64, Cl. D74—1.
- Wildgen, Leo F., to Arthur Salm, Inc. Condiment dispenser. 199,257, 9-29-64, Cl. D44—22.
- Wildman, Jacquard Co.: See—
Kamp, George B. 198,581.
- Wilfert, Karl, and B. Barényi, to Daimler-Benz Aktiengesellschaft. Automobile. 198,311, 6-3-64, Cl. D14—3.
- Wilken, Jerald: See—
Van Tress, Charles G., and Wilken. 197,787.
- Wilkin, Robert A., to Peter Pan Productions Ltd. Footed tumbler or similar article. 199,797, 12-15-64, Cl. D36—8.
- Wilkinson Sword Ltd.: See—
Radford, John A. 198,912.
Rogers, Edward A. 198,911.
- Willard, Mary E. Windshield for carriages or the like. 197,966, 4-14-64, Cl. D14—14.
- Willats, Anthony. Laundry lifter. 198,705, 7-21-64, Cl. D49—1.
- Wille, Walter O. Fish lure. 198,381, 6-9-64, Cl. D31—4.
- Williams, Donald E., to Acra-Plant, Inc. Seed planter shoe for opening a furrow. 199,745, 12-8-64, Cl. D35—2.
- Williams, Frank N., to Federal-Huber Co. Faucet aerator. 199,112, 9-8-64, Cl. D91—3.
- Williams, Gordon E., to Contempra/Craft Corp. Beach cabana. 198,445, 6-16-64, Cl. D13—1.
- Williams, Herbert E., to American Desk Mfg. Co. Tablet arm chair. 197,283, 1-7-64, Cl. D33—11.
- Williams, Herbert E., to American Desk Mfg. Co. Combination chair-desk. 197,284, 1-7-64, Cl. D33—11.
- Williams, Herbert E., to American Desk Mfg. Co. Book box desk. 197,285, 1-7-64, Cl. D33—11.
- Williams, Phyllis M. Novelty horse head. 199,572, 11-17-64, Cl. D34—2.
- Williams, Phyllis M. Mannequin's head or similar article. 199,604, 11-17-64, Cl. D80—8.
- Williamson Development Co., Inc.: See—
Anderson, Alan S., and Keeler. 198,585.
- Willinger, Allan H., to Aquariums Inc. Aquarium air pump. 197,819, 3-24-64, Cl. D65—1.
- Willinger, Allan H., to Aquariums Inc. Portable vacuum cleaner for aquariums. 198,200, 5-19-64, Cl. D9—2.
- Willinger, Allan H., to Aquariums Inc. Box. 199,647, 11-24-64, Cl. D58—12.
- Willits, Glenn D., to General Electric Co. Electric motor. 198,374, 6-9-64, Cl. D26—5.
- Willis, Frederick J., Jr., and R. J. Chamberlain, to Raytheon Co. Display package. 197,862, 3-31-64, Cl. D58—2.
- Willis, Frederick J., Jr., and R. J. Chamberlain, to Raytheon Co. Display package. 197,863, 3-31-64, Cl. D58—2.
- Wilmanns, Frederick A., to Textron Inc. Combined shoe sole and heel. 197,951, 4-14-64, Cl. D7—5.
- Wilson Athletic Goods Mfg. Co., Inc.: See—
Behrendt, George W. 197,524.
- Wilson, Carl H., and C. L. Leblanc, to Foster Grant Co., Inc. Pair of sunglasses or the like. 198,643, 7-14-64, Cl. D57—1.
- Wilson, Carl H., and C. L. Leblanc, to Foster Grant Co., Inc. Pair of sunglasses or the like. 198,644, 7-14-64, Cl. D57—1.
- Wilson, Hugh D., to Union Carbide Corp. Diving bell. 199,770, 12-8-64, Cl. D71—1.
- Wilson, J. G., Corp.: See—
Bevan, James L. 198,690.
- Wilson, Jack J. Measuring ruler or similar article. 199,807, 12-15-64, Cl. D52—6.
- Wilson, Mary A. Dog basket liner. 198,495, 6-23-64, Cl. D12—2.
- Wilson, Morris W., to General Electric Co. Clock or similar article. 198,044, 4-21-64, Cl. D42—7.
- Wilson Plastics, Inc.: See—
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Kulow, Howard H. 199,207.
- Wilson, Robert B.: See—
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- Wilson, Simon. Combined lamp and flower holder. 199,920, 12-29-64, Cl. D48—20.
- Wilson, William W. Tooth for excavating apparatus. 199,133, 9-15-64, Cl. D39—1.
- Wilt, Grant M., to White Castle System, Inc. French fry basket. 197,322, 1-7-64, Cl. D81—10.
- Wilske, James N., to Vanamatic Co. Set of chessmen. 198,575, 7-7-64, Cl. D34—5.
- Wingard, Robert W.: See—
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- Winger, Joseph A., to Texaco Inc. Compressed air supply cart or similar article. 197,860, 3-31-64, Cl. D52—2.
- Winger, Joseph A., M. R. Cothorn, and M. J. Gammill, to Texaco Inc. Gasoline pump or similar article. 197,439, 2-4-64, Cl. D52—2.
- Winger, Joseph A., M. R. Cothorn, and M. J. Gammill, to Texaco Inc. Gasoline pump or similar article. 197,440, 2-4-64, Cl. D52—2.
- Winslow Mfg. Corp.: See—
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- Winter, Marvin. Combined dental cabinet and instrument tray. 198,788, 8-4-64, Cl. D24—1.
- Winters, Alva B., to Revere Electric Mfg. Co. Luminaire. 197,909, 4-7-64, Cl. D48—20.
- Winters, Austin P. Sign or similar article. 198,119, 5-5-64, Cl. D1—12.
- Wirsching, Robert E., to Bell Telephone Laboratories, Inc. Base for a telephone handset. 197,336, 1-14-64, Cl. D26—14.
- Wiseman, Russell B. Boring tool. 198,396, 6-9-64, Cl. D54—4.
- Wisnar, Inc.: See—
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- Wiss, J., & Sons Co.: See—
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- Wiswald, Edward W. Spinner fish lure. 197,469, 2-11-64, Cl. D31—4.
- Witkoff, Robert S. Tongs. 198,235, 6-2-64, Cl. D44—4.
- Witkoff, Robert S. Tongs. 198,929, 8-18-64, Cl. D44—4.
- Wittek, John M., and R. M. Monahan, to Esta Medical Laboratories, Inc. Medicament applicator. 198,115, 4-28-64, Cl. D83—12.

- Woest, George R. Building. 199,618, 11-24-64, Cl. D13—1.
- Wolcott, William G. Paint brush holder. 198,438, 6-16-64, Cl. D9—2.
- Wolf Electric Tools Ltd.: See—
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- Wolfe, Donald G., Sr., to D. H. Schuster. Housing for teaching machines. 199,566, 11-17-64, Cl. D25—1.
- Wolfe, Gerald W.: See—
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- Wolfe, Norbert T.: See—
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- Wolfer, Otto J., to The Pure Oil Co. Tire. 198,739, 7-21-64, Cl. D90—20.
- Wolkowitz, Max. Curtain or a similar article. 198,528, 6-30-64, Cl. D21—6.
- Wolnez, George J., to Aerojet-General Corp. Paper cutter. 199,312, 10-6-64, Cl. D22—3.
- Wolske, Lawrence E., to Whirlpool Corp. Humidifier. 198,413, 6-9-64, Cl. D62—4.
- Wood Conversion Co.: See—
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- Wood, John, Co.: See—
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- Wood, Robert A. Toilet support unit for invalids. 197,457, 2-11-64, Cl. D4—5.
- Wood, William G., to The Electric Storage Battery Co. Sunglass frame front. 198,280, 5-26-64, Cl. D57—1.
- Woodall Industries, Inc.: See—
Grelg, James W., and Berridge. 197,932.
- Woodbridge Moulded Products Ltd.: See—
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Doster, Anne. 197,640.
- Woodruff, Roy P. Deodorant carrying container for use in toilet flush tanks. 199,735, 12-8-64, Cl. D16—2.
- Woroble, Joseph. Dispenser for powdered solids. 199,233, 9-29-64, Cl. D4—3.
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Hekler, Norman N. 198,794.
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- Worthington, George W., to Owens-Illinois Glass Co. Jug. 197,812, 3-24-64, Cl. D58—5.
- Wright, Jerry E.: See—
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- Wright, Jerry E. Vegetable dish or similar article. 197,475, 2-11-64, Cl. D44—15.
- Wright, Jerry E. Warming platter or similar article. 199,135, 9-15-64, Cl. D44—1.
- Wright Tool and Forge Co., The: See—
Greenlee, Hugh T. 199,149.
- Wulf, Charles A., Jr.: See—
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- Wunder, Charles J.: See—
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- Wurtembergische Metallwarenfabrik: See—
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- Wyner, Justin L.: See—
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- Wyse, David S., and H. G., to Projects Unlimited, Inc. Motor scooter. 199,480, 10-27-64, Cl. D90—8.
- Wyse, Harold G.: See—
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- Yamasaki, Kim: See—
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- Yamasaki, Kim, and A. L. Alger, to B. H. Bunn Co. Tying machine. 198,814, 8-4-64, Cl. D55—1.
- Yang, Peter Q., to Audio Dynamic Corp. High fidelity loud-speaker cabinet. 197,611, 3-3-64, Cl. D26—14.
- Yankee Plastics, Inc.: See—
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- Yodesky, Francis J. Lunch pail. 198,949, 8-18-64, Cl. D58—17.
- Yonkers, William A.: See—
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- Yoshikawa, Kazutaka: See—
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- Yoshino, Zenzaburo. Table lighter. 197,910, 4-7-64, Cl. D48—27.
- Yoshino, Zenzaburo. Gas lighter for cigarettes and the like. 199,265, 9-29-64, Cl. D48—27.
- Yoshizumi, Kenji: See—
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- Young, Don H.: See—
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- Youngman-Carter, Philip. Set of game pieces. 198,629, 7-14-64, Cl. D34—5.
- Zack, Julius, and W. R. Zimmerman, to Hess Oil & Chemical Corp. Automobile interior servicing tray. 199,462, 10-27-64, Cl. D58—13.

- Zagara, Frank A.: See—
Olson, Richard J., and Zagara. 199,465.
Olson, Richard J., and Zagara. 199,466.
Zaleski, Joseph D. Tool for installing a snow guard on a shingled roof. 198,282, 5-26-64, Cl. D54-13.
Zanuso, Marco, to Brion Vega Radio Television S.A.S. Television receiver. 197,628, 3-3-64, Cl. D58-4.
Ziesel, Eva. Tea cup. 198,930, 8-18-64, Cl. D44-9.
Ziesel, Eva. Dinner plate. 198,931, 8-18-64, Cl. D44-15.
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Boldt, Melvin H. 197,668.
Boldt, Melvin H. 199,736.
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Zerbe, Howard E. Combined flower pot support and flower pot. 199,627, 11-24-64, Cl. D35-3.
Zeyher, Lewis W. Candle holder. 199,455, 10-27-64, Cl. D48-2.
Zia, Mohammed A. Smoking pipe or similar article. 199,607, 11-17-64, Cl. D85-8.
Zierhut, Clarence D., to The Cal-Dak Co. Valet stand. 199,357, 10-13-64, Cl. D33-8.
Ziff, Irving M. Surfboard. 199,470, 10-27-64, Cl. D71-1.
Zimmerman, Jack J. Telephone amplifier. 197,337, 1-14-64, Cl. D26-14.
Zimmerman, Richard S.: See—
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Ziner, Edward H., and C. E. Fischer. Trim panel for an automobile. 198,261, 5-26-64, Cl. D14-6.
Ziskin, Manuel S., to Kromex Corp. Canister. 197,572, 2-25-64, Cl. D44-6.
Zuldhof, Jan. Combined hand grip and tread block for manholes, shipblocks and swimming pools. 198,019, 4-21-64, Cl. D13-1.
Zundel, Arthur P., to American Can Co. Closure with a tear strip opener. 199,548, 11-10-64, Cl. D58-26.
Zwahlen, Guy, and H. W. Nickerson, to Zwahlen, Inc. Projection cabinet. 197,743, 3-17-64, Cl. D61-1.
Zwahlen, Guy, and W. S. Bodenhamer, to Zwahlen, Inc. Projection cabinet. 197,744, 3-17-64, Cl. D61-1.
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- Amling-Devar Nurseries, Inc.: See—
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Anderson, Frederic W., to Dave Wilson Nursery. Almond tree. 2,367, 2-25-64, Cl. 80.
Anderson, Frederic W., to I. M. Burchell d.b.a. The Burchell Nursery. Almond tree. 2,379, 3-17-64, Cl. 30.
Anderson, Frederic W., to Fowler Nurseries, Inc. Almond tree. 2,380, 3-17-64, Cl. 30.
Anderson, Frederic W., to Stribling's Nurseries, Inc. Pecan tree. 2,392, 4-21-64, Cl. 31.
Anderson, Frederic W., to Kim Bros., d.b.a. Reedley Nursery. Plum tree. 2,415, 6-30-64, Cl. 38.
Anderson, Frederic W., to L. E. Cooke Co. Peach tree. 2,418, 7-7-64, Cl. 43.
Anderson, Frederic W., to Fowler Nurseries, Inc. Almond tree. 2,426, 7-14-64, Cl. 30.
Armstrong, David L., to Armstrong Nurseries, Inc. Peach tree. 2,399, 5-5-64, Cl. 43.
Armstrong Nurseries, Inc.: See—
Armstrong, David L. 2,399.
Arnold-Fisher Co.: See—
Fisher, Esther G. 2,342.
Ball, George J., Inc.: See—
Duffett, William E. 2,428.
Duffett, William E. 2,437.
Duffett, William E. 2,438.
Dunham, Orville O. 2,389.
Dunham, Orville O. 2,390.
Bernhardt, Edwin C. Avocado tree. 2,408, 5-12-64, Cl. 44.
Bloom, Alan H. V., to The Wayside Gardens Co. Rudbeckia purpurea (echinacea purpurea) plant. 2,414, 6-23-64, Cl. 88.
Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,346, 1-21-64, Cl. 79.
Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,347, 1-21-64, Cl. 78.
Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,352, 2-4-64, Cl. 78.
Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,372, 3-3-64, Cl. 76.
Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,396, 4-28-64, Cl. 82.
Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,400, 5-12-64, Cl. 20.
Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,402, 5-12-64, Cl. 17.
Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,411, 6-16-64, Cl. 26.
Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,421, 7-7-64, Cl. 11.
Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,441, 8-25-64, Cl. 14.
Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,442, 8-25-64, Cl. 16.
Bountiful Ridge Nurseries: See—
Errera, John. 2,360.
Bourne, Benjamin A.: See—
Wetman, Leslie M., and Bourne. 2,461.
Brandt, Herman. Hemlock tree. 2,368, 3-3-64, Cl. 50.
Brunes, Charles C. Strawberry plant. 2,407, 6-2-64, Cl. 49.
Brunnen, Bertha R. Z. Strawberry plant. 2,429, 7-28-64, Cl. 49.
Burchell, Irvin M.: See—
Anderson, Frederic W. 2,379.
Burchell Nursery, The: See—
Anderson, Frederic W. 2,379.
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Cayoux, Louis F., to R. Talbot. Hydrangea plant. 2,457, 12-1-64, Cl. 54.
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Melland, Alain. 2,349.
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Melland, Alain. 2,444.
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Swim, Herbert C., and Weeks. 2,370.
Swim, Herbert C., and Weeks. 2,371.
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Dot, Pedro, to The Conard-Pyle Co. Rose plant. 2,462, 12-15-64, Cl. 20.
Duffett, William E., to George J. Ball, Inc. Chrysanthemum plant. 2,428, 7-28-64, Cl. 82.
Duffett, William E., to George J. Ball, Inc. Chrysanthemum plant. 2,437, 8-18-64, Cl. 78.
Duffett, William E., to George J. Ball, Inc. Chrysanthemum plant. 2,438, 8-18-64, Cl. 78.
Duke, John F., J. F. Duke, Jr., and L. P. Duke, to C. L. Shepard, Jr. Peach tree. 2,439, 8-26-64, Cl. 43.
Duke, John F., Jr.: See—
Duke, John F., J. F. Duke, Jr., and L. P. Duke. 2,439.
Duke, Leman P.: See—
Duke, John F., J. F. Duke, Jr., and L. P. Duke. 2,439.
Dunham, Orville O. Chrysanthemum plant. 2,388, 3-31-64, Cl. 81.
Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 2,389, 4-14-64, Cl. 77.
Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 2,390, 4-14-64, Cl. 79.
Ecke, Paul. Poinsettia plant. 2,398, 4-28-64, Cl. 86.
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Eddie, Henry M. 2,413.
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Ellerbrook, William. Barberry plant. 2,341, 1-14-64, Cl. 58.
Errera, John, to E. H. and H. S. Kemp, trading as Bountiful Ridge Nurseries. Peach tree. 2,360, 2-11-64, Cl. 43.
Fanick, Eddie. Ash tree. 2,412, 6-23-64, Cl. 51.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,351, 2-4-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,353, 2-4-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,354, 2-4-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,355, 2-4-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,356, 2-4-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,357, 2-4-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,361, 2-11-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,362, 2-11-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,363, 2-11-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,373, 3-10-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,374, 3-10-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,375, 3-10-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,393, 4-28-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,394, 4-28-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,395, 4-28-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,416, 7-7-64, Cl. 85.
Fischer, Carl, to Imperial Flowers Ltd. Gladiolus plant. 2,417, 7-7-64, Cl. 85.
Fisher, Esther G., to Arnold-Fisher Co. Rose plant. 2,342, 1-14-64, Cl. 18.
Flemer, William, III, to Princeton Nurserymen's Research Associates. Zelkova tree. 2,337, 1-7-64, Cl. 51.
Flemer, William, III, to Princeton Nurserymen's Research Associates. Pagoda tree. 2,338, 1-7-64, Cl. 51.
Flemer, William, III, to Princeton Nurserymen's Research Associates. Maple tree. 2,339, 1-7-64, Cl. 51.
Fowler Nurseries, Inc.: See—
Anderson, Frederic W. 2,380.
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LIST OF DISCLAIMERS AND DEDICATIONS

- Baker, John F., Dusan S. Gelletich, and William J. Wasylenko, Philadelphia, Pa. Disclaimer filed May 28, 1964, by the inventors and assignee, Barroughs Corporation. No. 3,060,277; v. 805; p. 837.
 Baker, John R., Pasadena, and Theodore H. Schorr, Los Angeles, Calif. Disclaimer filed Jan. 29, 1964, by the assignee, Baker Oil Tools, Inc. No. 2,983,318; v. 801; p. 565.
 Barringer, Charles Minor, Kennett Township, Chester County, Pa. Dedication filed May 11, 1964, by the assignee, E. I. du Pont de Nemours and Company. No. 3,080,329; v. 805; p. 2.
 Bleiman, Howard W., Philadelphia, Pa. Disclaimer filed June 9, 1964, by the assignee, Frank H. Fleer Corporation. No. 3,128,011; v. 805; p. 837.
 Boehme, Werner Richard, Somerville, and Edgar Slegmund Schipper, Highland Park, N.J. Disclaimer filed Jan. 21, 1964, by the assignee, Ethicon, Inc. No. 3,006,920; v. 801; p. 265.
 Braun, Arthur and Rolf Mayer, Frankfurt, and Nikolaus Laing, Stuttgart, Germany. Disclaimer filed Nov. 6, 1963, by the assignee, Braun Aktiengesellschaft. No. 3,109,582; v. 799; p. 586.
 Campbell, Harris S., Bryn Athyn, Pa. Disclaimer filed June 25, 1964, by the assignee, Autogiro Company of America. No. 2,659,551; v. 806; p. 617.
 Campbell, Harris S., Bryn Athyn, Pa. Disclaimer filed June 25, 1964, by the assignee, Autogiro Company of America. No. 2,670,804; v. 806; p. 617.
 Campbell, Harris S., Bryn Athyn, Pa. Disclaimer filed June 25, 1964, by the assignee, Autogiro Company of America. No. 2,877,856; v. 806; p. 617.
 Campe, William T., Crystal Lake, Ill., and Robert A. Heinrich, Maple Glen, Pa. Disclaimer filed Dec. 10, 1963, by the assignee, Minneapolis-Honeywell Regulator Company. No. 2,935,653; v. 799; p. 383.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,423,638; v. 806; p. 1251.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,437,075; v. 806; p. 1251.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,472,193; v. 806; p. 1252.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,478,089; v. 806; p. 1252.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,483,002; v. 806; p. 1252.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,483,623; v. 806; p. 1252.
 Clayton, Benjamin, Pasadena, Calif. Dedication filed June 30, 1964, by the inventor. No. 2,678,327; v. 806; p. 1252.
 Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the inventor. No. 2,769,827; v. 806; p. 1253.
 Clayton, Benjamin, Pasadena, Calif. Dedication filed June 30, 1964, by the inventor. No. 2,902,501; v. 806; p. 1253.
 Coffing, Frederick W., Danville, Ill. Disclaimer filed Mar. 27, 1964, by the assignee, Duff-Norton Company. No. 2,670,176; v. 803; p. 889.
 Coolidge, John E., Arlington Heights, Ill., and Robert J. S. Brown, Fullerton, Calif. Disclaimer filed Sept. 24, 1964, by the assignees, Borg-Warner Corporation and California Research Corporation. No. 3,004,212; v. 809; p. 979.
 Dabich, Sam, and John B. Polonski, Detroit, Mich. Disclaimer filed Aug. 26, 1964, by the assignee, Borg-Warner Corporation. No. 2,939,557; v. 809; p. 3.
 D'Amico, John J., Nitro, W. Va. Disclaimer filed May 20, 1964, by the assignee, Monsanto Chemical Company. No. 2,943,079; v. 805; p. 582.
 De Ruggieri, Pietro, and Carmelo Gandolfi, Milan, Italy. Disclaimer filed Mar. 9, 1964, by the assignee, Ormonoterapia Richter S.p.A. No. 3,114,749; v. 802; p. 871.
 Dietrich, Howard H., Rochester, N.Y., Charles J. Brady, Phoenix, and Philip J. Garthe, Mesa, Ariz. Disclaimer filed Nov. 26, 1963, by the assignee, General Motors Corporation. No. 3,001,519; v. 799; p. 2.
 Eland, Robert C. A., Arcadia, Calif. Disclaimer filed Feb. 27, 1964, by the assignee, Standard Kollsman Industries Inc. No. 2,968,742; v. 803; p. 303.
 Feinberg, Albert E., Chicago, Ill. Disclaimer filed July 30, 1964, by the inventor, the assignee, Advanced Transformer Co., assenting. No. 2,820,180; v. 806; p. 1.
 Ferchland, Harold W., Birmingham, Mich. Disclaimer filed July 31, 1964, by the assignee, General Motors Corporation. No. 2,972,485; v. 806; p. 1.
 Flske, Paul E., San Diego, Calif. Disclaimer filed Dec. 9, 1963, by the inventor. No. 3,112,482; v. 799; p. 383.
 Flinn, George E., Muncie, Ind. Disclaimer filed Aug. 26, 1964, by the assignee, Borg-Warner Corporation. No. 2,893,261; v. 809; p. 3.
 Forthmann, Frederick F., Jr., Washington Township, Bergen County, N.J. Disclaimer filed Aug. 4, 1964, by the inventor. No. 3,106,809; v. 805; p. 2.
 Fritz, Karl, Hagen, Westphalia, Germany. Disclaimer filed Aug. 26, 1964, by the inventor. No. 2,958,520; v. 808; p. 672.
 Frohman, Robert, Gardena, Calif. Disclaimer filed July 31, 1964, by the assignee, The National Cash Register Company. No. 3,001,711; v. 808; p. 2.
 Fuchs, Francis J., Jr., Winston-Salem, N.C. Disclaimer filed July 23, 1964, by the assignee, Western Electric Company, Incorporated. No. 3,094,898; v. 807; p. 780.
 Gerlach, Karl Albrecht, Dusseldorf, and Kurt Wittig, Lubbeck-Kucknitz, Germany. Disclaimer filed Mar. 2, 1964, by the assignee, Clevite Corporation. No. 2,946,924; v. 802; p. 571.
 Grabowski, Thomas S., Gary, Ind. Disclaimer filed Nov. 29, 1963, by the assignee, Borg-Warner Corporation. No. 3,053,712; v. 799; p. 204.
 Gustison, Robert A., Niagara Falls, Frank W. Hurd, White Plains, and Robert M. Fowler, Niagara Falls, N.Y. Dedication filed Apr. 22, 1964, by the assignee, Union Carbide Corporation. No. 3,131,993; v. 807; p. 1.
 Gwynn, Marlon H., Mountain Lakes, N.J. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,509,921; v. 806; p. 1252.
 Hall, Jesse E., Weatherford, Tex. Dedication filed May 11, 1964, by the assignee, David N. Barry III. No. 2,671,515; v. 805; p. 293.
 Hall, Jesse E., Sr., Weatherford, Tex. Dedication filed May 11, 1964, by the assignee, David N. Barry III. No. 2,731,816; v. 805; p. 293.
 Hallerberg, Don M., Los Angeles, Calif. Disclaimer filed Apr. 6, 1964, by the inventor. No. 3,090,949; v. 803; p. 889.
 Hanert, John M., Des Plaines, Ill. Disclaimer filed Oct. 19, 1964, by the assignee, Hammond Organ Company. No. 2,967,447; v. 808; p. 997.
 Harding, James, Greenbrook Township, Somerset County, N.J. Disclaimer filed Dec. 3, 1963, by the assignee, Union Carbide Corporation. No. 2,801,225; v. 799; p. 382.
 Hechenbleikner, Ingenieur, Clarksburg, Carl William Fause, Adams, and Francis C. Lanoue, North Adams, Mass. Disclaimer filed Nov. 29, 1963, by the assignee, Hooker Chemical Corporation. No. 2,884,798; v. 799; p. 204.
 Hogesed, Milton J., Kingston, N.C. Disclaimer filed Aug. 20, 1964, by the assignee, E. I. du Pont de Nemours and Company. No. 3,123,587; v. 809; p. 3.
 Holdeman, John W., and Sam Dabich, Detroit, Mich. Disclaimer filed Aug. 26, 1964, by the assignee, Borg-Warner Corporation. No. 2,926,543; v. 809; p. 3.
 Humphrey, Watts S., Jr., Cochituate, and Albert H. Ashley, Bedford, Mass. Disclaimer filed Mar. 26, 1964, by the assignee, Sylvania Electric Products Inc. No. 3,058,090; v. 803; p. 630.
 Kaplan, Sam H., Chicago, Ill. Disclaimer filed Aug. 14, 1964, by the assignee, Zenith Radio Corporation. No. 3,136,910; v. 808; p. 380.
 Kelley, Garrett P., Fox Point, and Henry J. Dallman, Glendale, Wis. Disclaimer filed Aug. 28, 1964, by the assignee, Kelley Company, Inc. No. 3,117,332; v. 808; p. 672.
 Kober, William, Fairport, N.Y. Disclaimer filed Jan. 31, 1964, by the assignee, TKM Electric Corp. No. 3,008,062; v. 802; p. 2.
 Kornbluth, Martin E., New York, N.Y. Disclaimer filed Aug. 18, 1964, by the assignee, American Seating Company. No. 3,116,090; v. 808; p. 672.
 Kubie, William L., Dumont, N.J., and Morris Mattikow, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,519,481; v. 806; p. 1252.
 La Rose, Royal J., Thibodaux, and Edward P. Clause, Labadieville, La. Disclaimer filed Mar. 2, 1964, by the inventors. No. 2,871,645; v. 802; p. 306.
 Larson, Arthur G., Minnrista, Minn., and Francis M. Raver, Yoe, Pa. Disclaimer filed Aug. 20, 1964, by the assignee, McQuay, Inc. No. 3,049,895; v. 809; p. 651.
 Lathrop, Robert P., Chevy Chase, Md., and Lawrence K. Hyde, Washington, D.C. Disclaimer filed May 22, 1964, by the assignee, Baldwin-Lima-Hamilton Corporation. No. 2,775,886; v. 805; p. 582.
 Ledwell, James W., High Point, N.C. Dedication filed Dec. 4, 1963, by the assignee, Frank D. De Long, Jr. No. 2,903,872; v. 799; p. 382.
 Lockwood, Warren H., Downey, Calif. Disclaimer filed May 4, 1964, by the inventor. Re. No. 24,731; v. 803; p. 630.
 Lund, Johan, Detroit, Mich. Disclaimer filed Sept. 10, 1964, by the assignee, Formsprag Company. Re. No. 25,594; v. 809; p. 651.

Maloney, Bernard, Gary, and Russell G. Altherr, Munster, Ind., and Robert D. Blew, Matteson, Ill. Disclaimer filed Nov. 29, 1963, by the assignee, Amsted Industries Incorporated. No. 3,022,867; v. 799; p. 383.

Mamas, Leo G., Columbus, Ohio. Disclaimer filed Mar. 19, 1964, by the assignee, Industrial Nucleonics Corporation. No. 3,006,225; v. 803; p. 630.

Mattikow, Morris, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,415,301; v. 806; p. 1251.

Mattikow, Morris, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,525,702; v. 806; p. 1252.

Mattikow, Morris, and David Perlman, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,585,954; v. 806; p. 1252.

Mattikow, Morris, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,640,780; v. 806; p. 1252.

Mattikow, Morris, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,652,412; v. 806; p. 1252.

Mattikow, Morris, and David Perlman, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,704,764; v. 806; p. 1252.

Mattikow, Morris, and David Perlman, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,721,872; v. 806; p. 1252.

Mead, Harold G., Rosemont, Pa. Disclaimer filed Apr. 8, 1964, by the assignee, Leeds and Northrup Company. No. 2,999,121; v. 803; p. 889.

Mick, Stanley H., St. Clair Shores, Mich. Disclaimer filed Feb. 26, 1964, by the assignee, General Motors Corporation. No. 3,023,744; v. 802; p. 306.

Miller, Stewart E., Middletown, N.J. Disclaimer filed May 22, 1964, by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,849,683; v. 805; p. 582.

Myers, William D., Norwalk, Calif. Disclaimer filed Jan. 29, 1964, by the assignee, Baker Oil Tools, Inc. No. 2,999,543; v. 801; p. 565.

Nicholson, Thomas W., Seattle, Wash. Disclaimer filed July 31, 1964, by the inventor. No. 2,802,496; v. 806; p. 335.

Noble, Arthur, Roseland, N.J. Disclaimer filed Aug. 17, 1964, by the assignee, Schering Corporation. No. 3,134,718; v. 808; p. 380.

Peirce, Walter T., Worcester, Mass. Disclaimer filed Nov. 22, 1963, by the assignee, United States Steel Corporation. No. 2,992,574; v. 799; p. 204.

Perlman, David, and Morris Mattikow, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,691,011; v. 806; p. 1252.

Perlman, David, and Morris Mattikow, New York, N.Y. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,746,957; v. 806; p. 1252.

Petherick, Edward John, Rowledge, near Farnham, England. Disclaimer filed May 25, 1964, by the assignee, International Business Machines Corporation. No. 2,975,409; v. 805; p. 537.

Poizin, Winfred J., Thienerville, Wis. Disclaimer filed Aug. 3, 1964, by the assignee, Will Ross, Inc. No. 2,871,592; v. 808; p. 2.

Prentice, Thomas H., Portland, Ore. Disclaimer filed June 12, 1964, by the inventor and the assignee, E. V. Prentice Co. No. 3,063,479; v. 806; p. 335.

Rafferty, James F., Fairview Park, and George A. Tinnerman, Lakewood, Ohio. Disclaimer filed Jan. 9, 1964, by the assignee, General American Transportation Corporation. No. 2,886,077; v. 799; p. 204.

Ray, Linton G., Jr., Kenmore, N.Y. Dedication filed Jan. 22, 1964, by the assignee, E. I. du Pont de Nemours and Company. No. 2,654,652; v. 801; p. 265.

Reding, Frederick P., Charleston, W. Va. Dedication filed Nov. 18, 1964, by the assignee, Union Carbide Corporation. No. 2,877,196; v. 809; p. 980.

Reed, William Oliver, Wellesley, Mass. Disclaimer filed Apr. 20, 1964, by the assignee, The Rauland Corporation. No. 3,121,796; v. 804; p. 521.

Rowe, George E., Wethersfield, Conn. Disclaimer filed Nov. 22, 1963, by the assignee, Embart Manufacturing Company. No. 2,994,986; v. 799; p. 2.

Rozsa, Tibor A., Minneapolis, Minn., Arlin B. Ward, Springfield, Ill., and Rezsue Gracza, Minneapolis, Minn. Disclaimer filed Sept. 23, 1964, by the assignee, The Pillsbury Company. No. 3,077,308; v. 809; p. 979.

Santelmann, William F., Jr., Lexington, Mass. Disclaimer filed Mar. 2, 1964, by the inventor and the assignee, Krohn-Hite Laboratories, Inc. No. 3,068,392; v. 802; p. 306.

Seem, Warren A., Gwynedd and Nicholas J. Stoddard, Philadelphia, Pa. Disclaimer filed Dec. 5, 1963, by the assignee, Textile Licensing Company. No. 2,966,775; v. 799; p. 383.

Singelmann, Dietrich, Berlin Haselhorst, Germany. Disclaimer filed Feb. 6, 1964, by the assignee, the United States of America as represented by the Secretary of the Air Force. No. 2,958,183; v. 802; p. 2.

Skowronski, George V., Neenah, Wis. Disclaimer filed Aug. 24, 1964, by the assignee, American Can Company. No. 3,111,255; v. 808; p. 672.

Slane, John C., High Point, N.C. Dedication filed Dec. 4, 1963, by the assignee, Frank D. De Long, Jr. No. 2,980,917; v. 799; p. 382.

Spalding, Dudley Brian, London, England. Disclaimer filed Nov. 13, 1963, by the inventor. No. 3,095,704; v. 799; p. 2.

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NOTES CONCERNING USE OF THE CLASSIFICATION OF PATENTS LISTING AND RELATED REFERENCE PUBLICATIONS

In the index which follows, the subject of invention of each patent issued during 1964 is identified by the class and subclass numbers of the official U.S. Patent Office classification in which the patent was classified at the time of issue. The Index is arranged in numerical order by class numbers, which appear as bold-face entries centered in the columns, and thereunder, in similar order, by subclasses which appear in the numerals in the left hand half of the columns. There are 47,578 patent and reissue patent numbers listed in the Index. A similar listing appears for design patents and plant patents which are separately shown under their respective classifications.

In order to find patent numbers in the Index pertaining to a particular subject, the user must first know the class and subclass in which the Patent Office assigns inventions relating to that subject. In some instances a number of classes and subclasses may be pertinent. The process of finding this information requires the coordinated use of several other Patent Office publications usually found in collections which contain the *Index of Patents*. Each of them is considered below.

Manual of Classification: This publication is the source of the needed information as it contains the entire classification schedule showing the number and descriptive title of every class and subclass. It is, also, the key aid in the finding system as it provides a number of features aimed at assisting the user to identify his search problem and to use its content in locating the specific classification representing the subject matter of concern to him. These features include (1) listings of the class titles in alphabetical order; (2) description of the plan of the Manual; (3) discussion of the basis of classification, the scope of the classes, and the schematic arrangement of subclasses; (4) instructions on reading subclass titles and definitions; and, (5) suggestions on procedure for finding pertinent classification.

Index to Classification: This publication contains more than 300 pages of subject matter headings showing for each heading the class and subclass to which it pertains. They are arranged in alphabetical order in main heading and subheading categories, the latter being indented under the main headings and sometimes further subdivided. The headings include key words and significant phrases taken from the class and subclass titles, but they are neither limited to this source nor include all of them. Many technical as well as common terms of reference to objects, arts, processes, compositions of matter, etc., not found in the classification schedule are included in the index headings so as to offer a practical and convenient aid to finding patented subject matter.

Classification Bulletins: This is a series of numbered publications which supplements the *Manual of Classification* by giving detailed definitions and illustration of the kind of subject matter that can be found in each class and subclass, describing the lines of distinction among them, and containing references to other classes and subclasses having related subject matter. There is a separate Bulletin for each major classification, which is identified in the heading to each class in the Manual.

Use of Reference Publications

As a first step, the searcher should look in the *Index to Classification* for the term which to him best represents the subject matter of interest. If a match is not

found, he should look for terms of approximately the same meaning, for terms of either broader or narrower scope, or for terms which represent a different approach to the subject (e.g., the essential *function* or the *effect* of use or application of the art or object of concern). This requires that the user interact with the content of the Index, exercising judgment and imagination to consider alternatives or to find in the listed items some aspect of pertinency to his subject.

On finding the identifying numbers of possibly pertinent classes and subclasses in the Index, the user should refer to the *Manual of Classification* and ascertain from among the existing choices, the precise classification identity of his subject interest. Having thus determined the appropriate class and subclass, the searcher is ready to turn to the "Classification of Patents" listings to look for the corresponding numbers in its columns. The patent numbers found listed under the relevant classification provide the information needed to gain access to the patents themselves or to the extracts from them which are printed in the Official Gazette. In the latter connection, the user will find on the last page of this section a table entitled "List of Patent, Design, Plant Patent, and Reissue Numbers Appearing in the Official Gazette for 1964" which will guide him to the issue of the Official Gazette containing any specific patent number. He will find listed elsewhere in this section the 22 libraries which receive all U.S. patents and maintain them for public use in numerical order and the more than 300 depository libraries which receive the Official Gazette.

When the class and subclass which the searcher has determined to represent his interest does not appear in the "Classification of Patents" listing, he may assume that no patents were issued in that classification during the year. The possibility of this being the case is indicated by the fact that patents issued in less than one-third of the total number of subclasses in the classification.

If, after following the above-described procedure in using the *Index to Classification*, the searcher fails to find a pertinent classification, he should turn to the listings which appear at the front of the *Manual of Classification*. He should consider, particularly, the listing of groups of related subjects and the listing of classes arranged in alphabetical order which, in different ways, lay the entire framework of the classification in broad focus before him. He should scan the titles which appear on these sheets and note those which would appear to contain the subject matter sought.

Whichever of these approaches is taken, the searcher is guided to the classification schedules. He should inspect them carefully, proceeding from one major coordinate subclass to another until finding one which seems most nearly pertinent. The minor subclasses therein should then be scanned to find the title which indicates inclusion of the subject matter in question. Where doubt exists as to choice among several subclasses, the user should consult the Classification Bulletin containing the definitions of the class under study.

Further information on the use of the reference publications discussed above, as aids in using numerical files of patents or extracts of patents published in issues of the Official Gazette which may be found in the libraries listed elsewhere in this section, is offered in the illustrated publication *How To Obtain Information From Patents*, available from the Superintendent of Documents, Washington, D.C., at 20 cents a copy.

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49 : 3,122,749	3,156,923	159 : 3,121,877	Class 4	187 : 3,126,552	136 : 3,116,494	
3,125,761	3,117,322	3,128,472	1 : 3,122,756	187 : 3,126,552	136 : 3,116,494	
3,131,397	3,127,616	3,152,337	3,122,757	187 : 3,126,552	136 : 3,116,494	
3,141,171	3,128,469	3,124,806	3,142,068	187 : 3,126,552	136 : 3,116,494	
3,158,868	3,130,415	161 : 3,123,832	3,148,379	187 : 3,126,552	136 : 3,116,494	
5 : 3,150,378	3,148,376	162 : 3,119,118	3,162,863	187 : 3,126,552	136 : 3,116,494	
50 : 3,144,654	3,162,862	163 : 3,129,431	3,162,863	187 : 3,126,552	136 : 3,116,494	
53 : 3,157,884	3,147,487	167 : 3,132,348	3,162,863	187 : 3,126,552	136 : 3,116,494	
56 : 3,137,858	3,159,844	169 : 3,124,807	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,152,334	3,122,752	3,128,473	3,162,863	187 : 3,126,552	136 : 3,116,494	
78 : 3,137,004	3,132,345	3,151,335	3,162,863	187 : 3,126,552	136 : 3,116,494	
95 : 3,144,655	3,135,963	172 : 3,134,983	3,162,863	187 : 3,126,552	136 : 3,116,494	
104 : 3,121,876	3,137,006	174 : 3,126,550	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,158,869	3,139,624	175 : 3,131,401	3,162,863	187 : 3,126,552	136 : 3,116,494	
106 : 3,120,664	3,137,005	177 : 3,125,763	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,122,750	3,144,658	177 : 3,125,763	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,124,805	3,155,982	180 : 3,156,925	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,153,790	3,147,488	182.6 : 3,150,380	3,162,863	187 : 3,126,552	136 : 3,116,494	
107 : 3,145,390	3,141,172	194 : 3,156,926	3,162,863	187 : 3,126,552	136 : 3,116,494	
117 : 3,142,066	3,143,739	195 : 3,128,474	3,162,863	187 : 3,126,552	136 : 3,116,494	
121 : 3,119,114	3,147,489	195 : 3,123,289	3,162,863	187 : 3,126,552	136 : 3,116,494	
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187 : 3,133,288	3,146,463	198 : 3,150,381	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,160,890	3,135,964	200 : 3,134,107	3,162,863	187 : 3,126,552	136 : 3,116,494	
210 : 3,134,105	3,131,399	202 : 3,145,393	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,140,493	3,146,464	203 : 3,157,887	3,162,863	187 : 3,126,552	136 : 3,116,494	
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260 : 3,158,870	3,132,346	206 : 3,134,984	3,162,863	187 : 3,126,552	136 : 3,116,494	
301 : 3,117,321	3,141,174	207 : 3,141,176	3,162,863	187 : 3,126,552	136 : 3,116,494	
302 : 3,147,485	3,156,924	209 : 3,119,119	3,162,863	187 : 3,126,552	136 : 3,116,494	
317 : 3,132,343	3,145,391	3,144,663	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,145,388	3,120,003	3,161,889	3,162,863	187 : 3,126,552	136 : 3,116,494	
318 : 3,119,115	3,131,400	211 : 3,159,845	3,162,863	187 : 3,126,552	136 : 3,116,494	
321 : 3,126,549	3,160,891	216 : 3,123,833	3,162,863	187 : 3,126,552	136 : 3,116,494	
323 : 3,149,340	3,149,342	221 : 3,122,755	3,162,863	187 : 3,126,552	136 : 3,116,494	
324 : 3,119,116	3,141,175	224 : 3,119,120	3,162,863	187 : 3,126,552	136 : 3,116,494	
325 : 3,159,843	3,146,466	3,128,475	3,162,863	187 : 3,126,552	136 : 3,116,494	
329 : 3,131,398	3,137,007	3,134,108	3,162,863	187 : 3,126,552	136 : 3,116,494	
333 : 3,116,487	3,155,983	3,137,862	3,162,863	187 : 3,126,552	136 : 3,116,494	
335 : 3,148,374	3,130,416	3,145,394	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,149,341	3,144,659	3,153,243	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,151,331	3,147,490	227 : 3,143,741	3,162,863	187 : 3,126,552	136 : 3,116,494	
338 : 3,144,656	3,147,491	232 : 3,137,863	3,162,863	187 : 3,126,552	136 : 3,116,494	
342 : 3,142,842	3,144,660	234 : 3,120,004	3,162,863	187 : 3,126,552	136 : 3,116,494	
343 : 3,161,886	3,161,887	235 : 3,149,343	3,162,863	187 : 3,126,552	136 : 3,116,494	
345 : 3,145,389	3,153,293	236 : 3,126,551	3,162,863	187 : 3,126,552	136 : 3,116,494	
349 : 3,150,379	3,122,753	3,129,434	3,162,863	187 : 3,126,552	136 : 3,116,494	
3,152,336	3,127,617	3,155,986	3,162,863	187 : 3,126,552	136 : 3,116,494	
	3,116,489	237 : 3,161,890	3,162,863	187 : 3,126,552	136 : 3,116,494	
	3,130,417	239 : 3,119,121	3,162,863	187 : 3,126,552	136 : 3,116,494	
Class 2	98 : 3,137,008	3,146,468	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
1 : 3,130,413	3,161,888	3,148,378	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,132,344	3,119,117	243 : 3,137,864	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,147,486	3,159,846	3,138,802	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
2 : 3,123,831	3,154,789	3,154,792	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,125,762	3,143,740	3,156,927	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,127,614	3,116,491	3,156,928	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,135,961	3,122,754	244 : 3,156,928	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,139,622	3,129,432	247 : 3,137,865	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,144,657	3,143,661	3,150,382	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	
3,146,460	3,155,984	248 : 3,137,866	146 : 3,132,350	187 : 3,126,552	136 : 3,116,494	

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			3:149.352	25	3:132.358		3:130.430		3:161.899		3:134.123	35	3:149.361
			3:150.387	27	3:157.893		3:144.670		3:155.994		3:137.021	35	3:130.966
			3:161.896	34	3:130.425		3:155.994		3:162.876		3:139.641	36	3:116.566
			3:162.890	43	3:123.846	146	3:152.346		3:153.799	184	3:120.019	36	3:122.771
			3:137.872	54	3:162.871		3:157.899		3:143.752	187	3:128.488	36	3:140.501
		9	3:121.239	72	3:157.894	147	3:125.774		3:155.995		3:151.346	41	3:138.016
			3:121.889	76	3:117.328				3:147.501	192	3:130.434	42	3:116.506
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			3:156.933		3:139.636				3:159.860	193	3:133.299	42	3:116.510
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		10	3:123.843	89	3:117.329	6	3:140.343		3:154.802	198	3:139.642	42	3:120.673
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			3:133.295		3:157.895		3:147.328		3:121.896		3:137.334	42	3:128.499
			3:142.850	96	3:142.076		3:148.239		3:127.628		3:126.565	42	3:130.939
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			3:155.992		3:130.427		3:151.201		3:140.394		3:150.398	42	3:131.411
		24	3:117.325		3:160.898		3:160.692		3:153.251	5	3:142.082	42	3:132.366
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			3:125.405		3:126.560		3:127.462		3:137.018		3:135.002	42	3:141.181
		25	3:156.934		3:148.394		3:129.274	55	3:129.450		3:152.350	42	3:153.253
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			3:132.357	30	3:132.357		3:132.198	74	3:121.897	230	3:119.137	42	3:158.885
			3:137.013	35	3:137.013	126	3:162.872		3:131.408		3:128.489	256	3:144.671
			3:157.891		3:124.871	121	3:124.871		3:142.079		3:130.435	51	3:121.246
			3:150.389	40	3:129.445	129	3:129.445		3:136.836	77	3:135.981	51	3:131.411
			3:122.759	303	3:122.759		3:135.979		3:147.330		3:137.022	51	3:131.411
			3:146.470	307	3:146.470		3:142.077		3:162.873	80	3:156.937	51	3:134.123
			3:122.760	308	3:122.760		3:156.754	83	3:162.877	231	3:116.504	53	3:130.434
			3:118.157	310	3:118.157		3:150.396	88	3:121.898	234	3:160.890	257	3:121.898
			3:119.130		3:119.130	132	3:130.428		3:120.669	235	3:146.481		3:145.246
			3:119.131		3:119.131	135	3:134.997	13	3:139.473		3:119.138	06	3:157.899
			3:120.011		3:123.847	136	3:123.847		3:134.587		3:119.138	1	3:135.994
			3:121.890		3:137.016		3:137.016	14	3:122.600		3:119.138	06	3:157.899
			3:121.892		3:145.401	137	3:145.401		3:146.289		3:119.138	1	3:135.994
			3:123.844		3:121.892	139	3:121.892	15	3:138.499		3:119.138	06	3:157.899
			3:127.622		3:123.844		3:125.773		3:151.202	236	3:122.767	9	3:121.898
			3:127.623		3:139.637		3:139.637	20	3:148.325		3:130.436	258	3:162.871
			3:133.296		3:166.472		3:158.883	22	3:160.693		3:137.877	260	3:150.390
			3:134.114		3:131.407	152	3:131.407		3:150.396	237	3:121.899	267	3:140.343
			3:134.992		3:137.014	155	3:137.014		3:157.896	244	3:122.768	268	3:140.343
			3:145.075		3:137.014		3:155.993	24	3:141.181		3:131.409	302	3:162.871
			3:137.873		3:162.873		3:162.873	102	3:126.564		3:131.410	303	3:129.449
			3:142.075		3:139.638	162	3:139.638	103	3:138.815		3:134.122	304	3:119.138
			3:133.296		3:145.401		3:155.993	104	3:148.398		3:135.003	306	3:119.138
			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
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			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
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			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
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			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
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			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
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			3:145.401		3:145.401		3:155.993		3:155.993		3:135.003		3:145.246
			3:145.401										

506	: 3,152,351	35	: 3,162,888	176	: 3,143,760	45	: 3,158,896	8	: 3,123,858	16	: 3,149,374	36	: 3,128,504
	3,161,903		43	: 3,128,495	180	: 3,122,775		3,159,870		3,126,579		3,153,262	
507	: 3,130,441	47	: 3,140,506	186	: 3,117,340		3,159,871		3,130,448		3,156,011		3,135,999
509	: 3,130,442	50	: 3,157,906	190	: 3,162,891		3,159,872		3,130,449		3,156,011		3,143,770
510	: 3,143,410	51	: 3,137,909	191	: 3,121,909				3,131,427		3,157,914		3,145,421
511	: 3,133,305		3,149,366	197	: 3,135,014	Class 18			3,131,428		3,158,902		3,149,378
	3,157,904		3,160,910	198	: 3,146,488				3,159,876		3,159,876		3,159,879
512	: 3,135,987	52	: 3,129,453	206	: 3,160,914	1	: 3,119,146		3,131,429	5	: 3,132,379	38	: 3,123,865
	3,150,406		3,160,911				3,119,147		3,137,033	5	: 3,137,896		3,156,015
513	: 3,124,826		3,161,908	Class 17			3,122,781		3,144,680	5	: 3,137,897	39	: 3,132,382
	3,156,000	57	: 3,143,757				3,123,854		3,154,810	5	: 3,150,412		3,142,094
514	: 3,162,884	59	: 3,135,009	1	: 3,118,172		3,124,834		3,156,950	5	: 3,150,413		3,145,422
517	: 3,156,942	62	: 3,135,991		3,121,252		3,126,577		3,161,913	7	: 3,154,812	42	: 3,121,258
	3,157,905	64	: 3,156,001		3,122,776		3,126,577		3,161,914	17	: 3,128,501		3,128,505
521	: 3,147,511	66	: 3,131,420		3,123,852		3,128,498		3,124,837	9	: 3,141,195		3,134,142
522	: 3,160,909		3,158,894		3,142,860		3,131,424		3,124,838		3,152,364		3,134,143
523	: 3,132,369		3,162,889		3,139,368		3,132,375		3,134,138		3,153,263		3,136,001
	3,143,755	70	: 3,161,909		3,139,369		3,138,824		3,144,681		3,158,903		3,138,810
524	: 3,142,084	73	: 3,137,889		3,152,357		3,140,511		3,145,418		3,160,919		3,151,360
527	: 3,120,676	79	: 3,156,002		3,154,804		3,142,862		3,121,253	10	: 3,126,580		3,152,365
528	: 3,161,904	82	: 3,118,167		3,154,805		3,144,679		3,129,457	18	: 3,118,181		3,158,906
529	: 3,150,407		3,131,421		3,156,005		3,148,409		3,146,492		3,135,997		3,160,921
531	: 3,118,166	83	: 3,137,025		3,156,006		3,148,410		3,125,570	12	: 3,142,867		3,161,918
537	: 3,127,630	85	: 3,137,026		3,156,915		3,153,812		3,117,342	18	: 3,154,814	44	: 3,144,684
	3,159,863		3,156,003		3,159,868		3,154,806		3,117,343		3,162,898	45	: 3,120,028
539	: 3,152,352		3,160,912		3,159,869		3,154,807		3,118,179	19	: 3,117,344		3,133,317
541	: 3,132,370	86	: 3,120,022	1	: 3,124,832		3,159,873		3,119,148		3,118,182		3,136,002
	3,162,885		3,141,188	2	: 3,122,777		3,159,874		3,119,149		3,121,256		3,137,898
542	: 3,128,493	87	: 3,118,168		3,135,015	2	: 3,118,175		3,119,150		3,121,916		3,148,414
	3,146,484		3,126,575		3,143,761		3,121,911		3,121,914		3,121,914		3,158,907
544	: 3,134,129	2	: 3,137,027		3,151,351		3,122,782		3,122,788		3,123,863		3,162,028
546	: Rr. 25,556	2	: 3,137,890		3,156,946		3,122,783		3,122,789		3,126,582	47	: 3,120,029
	3,123,851	4	: 3,139,647	3	: 3,139,648		3,122,784		3,123,859		3,126,583		3,161,919
	3,126,573	4	: 3,153,256	4	: 3,116,512		3,128,499		3,123,860		3,130,451	48	: 3,121,131
547	: 3,133,306	4	: 3,157,907		3,123,853		3,130,446		3,123,861		3,130,451		3,125,617
	3,135,005	6	: 3,142,858	5	: 3,146,489		3,130,446		3,128,500		3,133,314	57	: 3,127,450
	3,162,886	88	: 3,143,758	7	: 3,126,576		3,135,018		3,129,458		3,133,315	59	: 3,127,450
551	: 3,120,677	90	: 3,118,169		3,127,634		3,137,032		3,129,459		3,135,998		3,121,133
552	: 3,121,905		3,132,371	9	: 3,128,496		3,140,512		3,129,460		3,137,036	Class 19	
	3,134,130	94	: 3,134,132		3,151,353		3,141,191		3,131,430		3,137,037		
	3,137,885		3,152,354	11	: 3,116,513		3,142,863		3,132,376		3,138,826	23	: 3,149,379
	3,145,411	95	: 3,157,908		3,119,144		3,146,490		3,132,377		3,141,196	25	: 3,124,844
553	: 3,143,756	105	: 3,118,170		3,123,861		3,147,514		3,133,313		3,142,868	51	: 3,161,920
555	: 3,116,511		3,137,028		3,125,779		3,151,353		3,135,994		3,149,376	56	: 3,150,411
560	: 3,140,504		3,141,189		3,137,892		3,154,808		3,153,813		3,141,191		
561	: 3,121,250		3,142,859		3,147,513		3,156,008		3,137,035		3,156,012	50	: 3,151,360
	3,131,419		3,148,405		3,162,892		3,120,026	6	: 3,137,895		3,158,901	52	: 3,145,421
	3,162,887		3,153,805	1	: 3,120,025		3,123,855	7	: 3,138,825		3,161,915	55	: 3,136,000
562	: 3,137,024		3,159,866	1	: 3,122,778		3,117,341		3,142,090		3,161,916		3,160,922
563	: 3,133,307	106	: 3,151,349	1	: 3,132,372		3,123,856		3,142,091		3,162,899	56	: 3,135,020
	3,140,505	108	: 3,120,023	1	: 3,145,415		3,124,835		3,143,766	20	: 3,117,345	59	: 3,162,900
	3,141,187	110	: 3,121,907	2	: 3,138,822		3,126,578		3,143,767		3,118,183		
565	: 3,133,308		3,122,774	15	: 3,135,016		3,131,425		3,143,768		3,121,917	63	: 3,162,900
	3,133,309		3,130,443	21	: 3,129,454		3,134,137		3,145,419		3,129,464	65	: 3,130,450
566	: 3,129,452		3,130,444		3,150,409		3,137,893		3,145,420		3,151,359	66	: 3,156,011
	3,135,988		3,133,311	23	: 3,121,910		3,142,864		3,146,493	21	: 3,124,840		3,160,922
	3,147,512		3,149,367	25	: 3,116,514		3,148,411		3,146,494		3,143,769	80	: 3,133,311
	3,148,401		3,151,350	26	: 3,153,808		3,151,354		3,148,412	25	: 3,136,748		3,135,020
567	: 3,161,905		3,156,943	29	: 3,138,823		3,152,361		3,150,411		3,117,346	82	: 3,159,898
568	: 3,124,827	111	: 3,156,944	32	: 3,120,678		3,157,910		3,151,356		3,131,431	93	: 3,122,797
569	: 3,124,828	112	: 3,135,010		3,137,029		3,158,897		3,154,811		3,134,140	95	: 3,136,000
	3,145,412		3,142,087		3,153,809		3,161,916		3,156,009		3,154,815	96	: 3,127,630
	3,153,804	114	: 3,157,909		3,153,810	5	: 3,116,516		3,158,899		3,117,347	97	: 3,123,860
571	: 3,134,131	116	: 3,143,759		3,153,811		3,118,176		3,158,900	30	: 3,117,348		3,137,040
	3,149,365	118	: 3,119,143		3,158,895		3,118,177		3,158,901		3,117,348	51	: 3,137,040
572	: 3,137,886	121	: 3,142,088	33	: 3,140,509		3,118,178		3,158,902		3,118,184	98	: 3,134,141
573	: 3,128,494		3,148,406	34	: 3,152,358		3,120,679		3,160,915		3,120,680		3,145,421
	3,148,402	124	: 3,117,339		3,152,359		3,121,253		3,160,916		3,121,257		3,154,811
575	: 3,135,006	126	: 3,159,867		3,162,893		3,122,785		3,162,896		3,121,918	102	: 3,143,770
	3,152,353	127	: 3,153,806	35	: 3,148,408		3,122,786		3,162,897		3,121,919	105	: 3,120,029
	3,158,892	128	: 3,121,908		3,150,410		3,122,787		3,162,898		3,121,920		3,144,685
	3,135,989		3,140,507		3,162,894		3,123,857		3,121,255		3,123,864		3,144,686
578	: 3,126,574	1	: 3,131,423	37	: 3,118,173		3,124,836		3,151,357		3,125,780	106	: 3,119,131
581	: 3,119,142	1	: 3,135,011	39	: 3,161,910		3,125,781		3,159,877		3,128,502		3,145,421
	3,121,429	1	: 3,153,257	41	: 3,122,779		3,125,781	14	: 3,122,790		3,129,465		3,132,340
	3,144,676		3,153,258	42	: 3,142,861		3,127,630		3,124,839		3,130,452		3,145,421
586	: 3,127,631	129	: 3,134,133	44	: 3,124,833		3,131,426		3,129,461		3,131,433		3,157,910
	3,148,403		3,148,407		3,132,373		3,135,019		3,142,092		3,132,381		3,159,899
592	: 3,121,902		3,162,890		3,134,135		3,135,993		3,142,865		3,133,316	107	: 3,150,411
	3,133,310	130	: 3,146,486		3,145,416		3,141,192		3,144,682		3,134,141	113	: 3,148,411
595	: 3,138,821		3,152,355		3,152,360		3,141,193		3,146,495		3,135,020	114	: 3,118,171
	3,145,413	135	: 3,120,024		3,156,947		3,142,089		3,147,515		3,137,038		3,136,001
	3,146,485		3,131,422		3,137,030		3,145,417		3,151,358		3,141,197		3,151,353
604	: 3,135,990	136	: 3,118,171	2	: 3,137,030		3,146,491		3,156,010		3,144,683	115	: 3,128,501
605	: 3,148,404	137	: 3,135,012	45	: 3,116,515		3,149,372		3,160,917		3,148,413	127	: 3,146,484
608	: 3,143,707		3,140,508		3,118,174		3,149,373		3,160,918		3,149,377	129	: 3,159,899
			3,153,807		3,119,145		3,153,261	15	: 3,119,151		3,153,814	144.5	: 3,131,434
Class 16		140	: 3,124,830		3,122,780		3,154,809		3,121,915		3,153,815	5	: 3,131,434
			3,146,487		3,127,635		3,157,911		3,141,194		3,154,816	145	: 3,129,464
1	: 3,135,008		3,153,259										

Class 19 - Con.	16	69	61
156.4 : 3,131,437	3,156,019	3,124,852	3,139,654
157 : 3,116,517	3,156,954	3,126,589	3,118,196
158 : 3,145,429	3,118,189	3,126,590	3,121,266
159 : Re. 25,520	3,120,033	3,126,591	3,127,643
3,125,782	3,120,034	3,132,386	3,117,355
3,111,200	3,120,683	3,138,833	3,120,039
3,141,201	3,122,795	3,140,517	3,121,926
3,150,416	3,138,830	3,142,997	3,127,644
3,121,921	3,141,207	3,142,998	3,137,903
3,150,417	3,142,996	3,145,434	3,137,904
3,133,319	3,143,773	3,150,123	3,160,929
3,142,999	3,154,819	3,153,265	3,123,875
3,125,783	3,156,020	3,154,823	3,123,875
3,142,970	3,159,885	3,159,885	3,160,930
3,135,024	3,138,831	3,161,925	3,157,922
3,150,417	3,121,261	3,121,262	3,162,908
3,133,319	3,121,263	3,133,325	3,122,800
3,125,783	3,121,264	3,138,834	3,153,822
3,142,970	3,122,796	3,161,926	3,157,923
3,135,024	3,137,900	3,162,906	3,130,460
3,150,417	3,137,901	3,128,511	3,127,645
3,133,319	3,153,817	3,156,957	3,162,909
3,125,783	3,151,820	3,131,442	3,124,854
3,142,970	3,134,146	3,117,353	3,126,593
3,135,024	3,116,519	3,129,472	3,125,408
3,150,417	3,123,868	3,137,044	3,153,266
3,133,319	3,137,901	3,145,435	3,140,148
3,125,783	3,152,367	3,156,022	3,144,301
3,142,970	3,151,821	3,133,326	3,146,061
3,135,024	3,117,351	3,118,191	3,147,069
3,150,417	3,129,467	3,124,853	3,149,907
3,133,319	3,126,588		3,150,922
3,125,783	3,133,323		3,150,923
3,142,970	3,145,432		3,161,927
3,135,024	3,150,118		3,137,905
3,150,417	3,126,586		3,123,876
3,133,319	3,141,203		3,150,425
3,125,783	3,145,772		3,162,910
3,142,970	3,157,917		3,133,787
3,135,024	3,119,380		3,139,323
3,150,417	3,126,587		3,117,352
3,133,319	3,129,468		3,136,598
3,125,783	3,122,791		3,161,928
3,142,970	3,131,438		3,127,646
3,135,024	3,133,320		3,163,491
3,150,417	3,133,321		3,116,522
3,133,319	3,135,025		3,138,835
3,125,783	3,124,845		3,139,656
3,142,970			3,162,912
3,135,024			3,116,523
3,150,417			3,116,521
3,133,319			3,158,911
3,125,783			3,123,877
3,142,970			3,125,786
3,135,024			3,146,062
3,150,417			3,148,943
3,133,319			3,151,935
3,125,783			3,148,939
3,142,970			3,148,940
3,135,024			3,151,930
3,150,417			3,152,861
3,133,319			3,153,567
3,125,783			3,158,437
3,142,970			3,159,451
3,135,024			3,162,508
3,150,417			3,117,836
3,133,319			3,119,653
3,125,783			3,120,994
3,142,970			3,124,435
3,135,024			3,131,908
3,150,417			3,134,642
3,133,319			3,144,303
3,125,783			3,148,948
3,142,970			3,146,065
3,135,024			3,149,911
3,150,417			3,150,928
3,133,319			3,153,572
3,125,783			3,156,527
3,142,970			3,123,438
3,135,024			3,128,151
3,150,417			3,132,922
3,133,319			3,140,915
3,125,783			3,148,023
3,142,970			3,152,863
3,135,024			3,148,024
3,150,417			3,152,864
3,133,319			3,141,735
3,125,783			3,148,944
3,142,970			3,161,465
3,135,024			3,116,973
3,150,417			3,149,916
3,133,319			3,117,838
3,125,783			3,148,026
3,142,970			3,123,440
3,135,024			3,153,573
3,150,417			3,155,456
3,133,319			3,157,465
3,125,783			3,119,658
3,142,970			3,122,414
3,135,024			3,141,731
3,150,417			3,117,835
3,133,319			3,148,945
3,125,783			3,148,946
3,142,970			3,139,327
3,135,024			3,141,736
3,150,417			3,157,466

Class 23

1 : 3,145,076

2 : 3,153,566

3 : 3,155,454

4 : 3,159,453

5 : 3,157,923

6 : 3,130,460

7 : 3,127,645

8 : 3,162,909

9 : 3,118,727

10 : 3,120,923

11 : 3,124,416

12 : 3,125,408

13 : 3,139,324

14 : 3,140,148

15 : 3,144,301

16 : 3,146,061

17 : 3,147,069

18 : 3,149,907

19 : 3,150,922

20 : 3,150,923

21 : 3,161,927

22 : 3,137,905

23 : 3,123,876

24 : 3,150,425

25 : 3,162,910

26 : 3,133,787

27 : 3,139,323

28 : 3,117,352

29 : 3,136,598

30 : 3,161,928

31 : 3,127,646

32 : 3,163,491

33 : 3,116,522

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36 : 3,162,912

37 : 3,116,523

38 : 3,116,521

39 : 3,158,911

40 : 3,123,877

41 : 3,125,786

42 : 3,146,062

43 : 3,148,943

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46 : 3,148,940

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48 : 3,152,861

49 : 3,153,567

50 : 3,158,437

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55 : 3,120,994

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57 : 3,131,908

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61 : 3,146,065

62 : 3,149,911

63 : 3,150,928

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66 : 3,123,438

67 : 3,128,151

68 : 3,132,922

69 : 3,140,915

70 : 3,148,023

71 : 3,152,863

72 : 3,148,024

73 : 3,152,864

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86 : 3,122,414

87 : 3,141,731

88 : 3,117,835

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Class 27	Class 29	33	3,149,401	149.5	3,142,888	155.6	3,119,408	187.5	3,122,423	208	3,142,895
7	3,159,901	1.1	3,149,402	5	3,147,537	62	3,127,666	5	3,150,936	210	3,143,792
12	3,145,445	21	3,137,057	5	3,149,405	62	3,135,040	190	3,160,479	211	3,145,459
16	3,151,375	22	3,125,794	5	3,158,923	62	3,160,946	191	3,148,953		3,126,621
19	Re. 25,545	32	3,137,914	5	3,158,924	63	3,123,898	3,155,461	3,150,937		3,137,932
	3,157,936	2,12	3,161,942	5	3,162,920	156.4	3,139,670	2	3,117,845	212	3,138,854
	3,162,923	6	3,129,488	35.5	3,137,916	155	3,122,819	2	3,117,845	213	3,138,854
21	3,121,934		3,144,702	5	3,158,920		3,128,536	2	3,117,845	214	3,138,854
	3,154,834		3,146,513	38	3,128,534		3,129,493	2	3,117,845	215	3,138,854
27	3,133,334	2	3,161,943		3,131,455		3,137,923	2	3,117,845	216	3,138,854
		2	3,162,925		3,131,456		3,137,923	2	3,117,845	217	3,138,854
Class 28		10	3,118,214		3,150,439		3,150,440	2	3,117,845	218	3,138,854
1	3,116,531	18	3,123,893		3,153,276		3,150,034	2	3,117,845	219	3,138,854
	3,116,532		3,152,383		3,158,925		3,158,925	2	3,117,845	220	3,138,854
	3,118,213	21.1	3,129,489		3,116,537		3,116,540	2	3,117,845	221	3,138,854
	3,120,048	23.5	3,137,915		3,162,927		3,119,172	2	3,117,845	222	3,138,854
	3,120,689	25	3,141,225		3,145,449		3,120,696	2	3,117,845	223	3,138,854
	3,120,690		3,151,377		3,125,582		3,121,279	2	3,117,845	224	3,138,854
	3,121,935	11	3,120,694		3,116,536		3,121,868	2	3,117,845	225	3,138,854
	3,123,888	11	3,131,160		3,121,938		3,126,616	2	3,117,845	226	3,138,854
	3,125,793	13	3,156,029		3,121,938		3,126,616	2	3,117,845	227	3,138,854
	3,129,485	14	3,130,473		3,121,938		3,126,616	2	3,117,845	228	3,138,854
	3,137,055	14	3,132,499		3,125,797		3,126,616	2	3,117,845	229	3,138,854
	3,137,911	14	3,132,410		3,130,477		3,128,538	2	3,117,845	230	3,138,854
	3,137,912	14	3,136,025		3,136,029		3,129,494	2	3,117,845	231	3,138,854
	3,139,664	14	3,140,528		3,136,036		3,130,478	2	3,117,845	232	3,138,854
	3,140,525	15	3,160,943		3,130,479		3,130,479	2	3,117,845	233	3,138,854
	3,146,512	17	3,128,531		3,130,479		3,130,479	2	3,117,845	234	3,138,854
	3,147,533	17	3,132,411		3,131,460		3,131,460	2	3,117,845	235	3,138,854
	3,152,379	17	3,130,474		3,131,461		3,131,461	2	3,117,845	236	3,138,854
	3,153,271	17	3,146,515		3,152,385		3,134,163	2	3,117,845	237	3,138,854
	3,153,272	17	3,137,917		3,154,839		3,136,032	2	3,117,845	238	3,138,854
	3,153,837	18	3,152,384		3,126,611		3,137,921	2	3,117,845	239	3,138,854
	3,154,835	19	3,117,363		3,121,939		3,138,854	2	3,117,845	240	3,138,854
	3,156,027	19	3,136,028		3,123,896		3,139,667	2	3,117,845	241	3,138,854
	3,160,941	19	3,151,381		3,123,897		3,139,668	2	3,117,845	242	3,138,854
	3,162,924	19	3,156,030		3,124,864		3,140,531	2	3,117,845	243	3,138,854
1	3,116,533	19	3,159,904		3,124,865		3,140,531	2	3,117,845	244	3,138,854
	3,116,534	2	3,125,795		3,124,866		3,141,232	2	3,117,845	245	3,138,854
	3,117,359	2	3,128,529		3,134,162		3,142,889	2	3,117,845	246	3,138,854
	3,122,815	3	3,120,052		3,136,030		3,142,890	2	3,117,845	247	3,138,854
	3,129,486	3	3,120,693		3,137,059		3,142,891	2	3,117,845	248	3,138,854
	3,132,406	3	3,122,817		3,137,918		3,143,787	2	3,117,845	249	3,138,854
	3,134,143	3	3,124,861		3,138,856		3,144,703	2	3,117,845	250	3,138,854
14	3,148,435	3	3,121,862		3,141,228		3,144,704	2	3,117,845	251	3,138,854
18	3,128,526	3	3,126,699		3,142,110		3,145,452	2	3,117,845	252	3,138,854
19	3,137,913	3	3,127,659		3,148,436		3,145,453	2	3,117,845	253	3,138,854
	3,161,940	3	3,128,530		3,149,400		3,145,454	2	3,117,845	254	3,138,854
21	3,121,889	3	3,131,154		3,152,386		3,153,845	2	3,117,845	255	3,138,854
	3,135,038	3	3,133,336		3,156,031		3,154,838	2	3,117,845	256	3,138,854
32	3,117,360	43	3,133,337		3,156,032		3,154,839	2	3,117,845	257	3,138,854
	3,160,942	3	3,134,159		3,156,967		3,159,906	2	3,117,845	258	3,138,854
43	3,136,025	3	3,140,527		3,158,921		3,159,907	2	3,117,845	259	3,138,854
46	3,121,936	3	3,141,226		3,160,945		3,160,946	2	3,117,845	260	3,138,854
49	3,120,691	3	3,145,447		3,161,941		3,161,942	2	3,117,845	261	3,138,854
51	3,123,890	3	3,146,511		3,162,928		3,162,929	2	3,117,845	262	3,138,854
58	3,126,607	3	3,149,495		3,163,035		3,163,036	2	3,117,845	263	3,138,854
59.5	3,121,859	3	3,149,496		3,164,511		3,164,512	2	3,117,845	264	3,138,854
62	3,117,361	3	3,151,378		3,165,032		3,165,033	2	3,117,845	265	3,138,854
64	3,132,407	3	3,151,379		3,166,033		3,166,034	2	3,117,845	266	3,138,854
	3,149,394	3	3,151,380		3,167,034		3,167,035	2	3,117,845	267	3,138,854
	3,153,273	3	3,153,275		3,168,035		3,168,036	2	3,117,845	268	3,138,854
	3,154,836	3	3,154,838		3,169,036		3,169,037	2	3,117,845	269	3,138,854
67	3,140,526	3	3,157,937		3,170,037		3,170,038	2	3,117,845	270	3,138,854
71.3	3,123,891	3	3,120,695		3,171,039		3,171,040	2	3,117,845	271	3,138,854
72	3,133,335	3	3,121,937		3,172,040		3,172,041	2	3,117,845	272	3,138,854
	3,120,692	3	3,123,894		3,173,041		3,173,042	2	3,117,845	273	3,138,854
	3,122,816	3	3,125,799		3,174,042		3,174,043	2	3,117,845	274	3,138,854
	3,127,658	3	3,127,660		3,175,043		3,175,044	2	3,117,845	275	3,138,854
	3,128,527	3	3,128,532		3,176,044		3,176,045	2	3,117,845	276	3,138,854
	3,136,026	3	3,128,533		3,177,045		3,177,046	2	3,117,845	277	3,138,854
	3,142,885	3	3,132,408		3,178,046		3,178,047	2	3,117,845	278	3,138,854
	3,143,784	3	3,136,033		3,179,047		3,179,048	2	3,117,845	279	3,138,854
	3,145,446	3	3,137,913		3,180,048		3,180,049	2	3,117,845	280	3,138,854
	3,151,376	3	3,141,227		3,181,049		3,181,050	2	3,117,845	281	3,138,854
	3,152,380	3	3,145,448		3,182,050		3,182,051	2	3,117,845	282	3,138,854
	3,152,381	3	3,149,497		3,183,051		3,183,052	2	3,117,845	283	3,138,854
	3,153,838	3	3,153,840		3,184,052		3,184,053	2	3,117,845	284	3,138,854
	3,154,837	3	3,157,938		3,185,053		3,185,054	2	3,117,845	285	3,138,854
	3,156,028	3	3,160,944		3,186,054		3,186,055	2	3,117,845	286	3,138,854
	3,158,921	3	3,164,512		3,187,055		3,187,056	2	3,117,845	287	3,138,854
	3,160,943	3	3,168,034		3,188,056		3,188,057	2	3,117,845	288	3,138,854
	3,162,926	3	3,171,036		3,189,057		3,189,058	2	3,117,845	289	3,138,854
	3,164,514	3	3,174,038		3,190,058		3,190,059	2	3,117,845	290	3,138,854
	3,166,035	3	3,177,040		3,191,059		3,191,060	2	3,117,845	291	3,138,854
	3,168,036	3	3,180,061		3,192,060		3,192,061	2	3,117,845	292	3,138,854
	3,170,062	3	3,183,063		3,193,061		3,193,062	2	3,117,845	293	3,138,854
	3,172,063	3	3,186,064		3,194,062		3,194,063	2	3,117,845	294	3,138,854
	3,174,064	3	3,189,065		3,195,063		3,195,064	2	3,117,845	295	3,138,854
	3,176,065	3	3,192,066		3,196,064		3,196,065	2	3,117,845	296	3,138,854
	3,178,066	3	3,195,067		3,197,065		3,197,066	2	3,117,845	297	3,138,854
	3,180,067	3	3,198,068		3,198,066		3,198,067	2	3,117,845	298	3,138,854
	3,182,068	3	3,201,069		3,199,067		3,199,068	2	3,117,845	299	3,138,854
	3,184,069	3	3,204,070		3,200,068		3,200,069	2	3,117,845	300	3,138,854
	3,186,070	3	3,207,071		3,201,069		3,201,070	2	3,117,845	301	3,138,854
	3,188,071	3	3,210,072		3,202,070		3,202,071	2	3,117,845	302	3,138,854
	3,190,072	3	3,213,073		3,203,071		3,203,072	2	3,117,845	303	3,138,854
	3,192,073	3	3,216,074		3,204,072		3,204,073	2	3,117,845	304	3,138,854
	3,194,074	3	3,219,075		3,205,073		3,205,074	2	3,117,845	305	3,138,854
	3,196,075	3	3,222,076		3,						

Class 34—Cont.		243 : 3,159,469	35 : 3,118,235	51 : 3,162,962
45 : 3,122,426	Class 35	2 : 3,156,051	3,122,847	59 : 3,133,363
3,123,448		3 : 3,125,812	3,126,647	72 : 3,118,237
3,125,422		5 : 3,136,072	3,134,178	66 : 3,151,408
3,132,003		6 : 3,161,967	3,142,909	69 : 3,144,724
3,135,587		3,128,563	3,146,534	71 : 3,145,490
3,159,465	48 : 3,124,429	3,136,073	3,148,459	77 : 3,130,507
3,161,481	7 : 3,126,645	3,161,969	3,156,052	130 : 3,130,511
3,128,157	8 : 3,131,177	3,131,489	3,162,966	70 : 3,139,694
3,132,004	9 : 3,116,564	3,134,423	3,131,496	71 : 3,128,571
3,148,955	10 : 3,117,382	3,137,079	3,137,082	72 : 3,126,059
3,156,530	50 : 3,128,530	3,145,481	3,145,493	73 : 3,137,958
3,158,158	53 : 3,117,847	3,147,555	3,150,456	74 : 3,135,064
3,152,873	54 : 3,129,072	3,148,460	3,154,871	75 : 3,150,458
3,117,859	55 : 3,129,075	3,148,460	3,154,871	76 : 3,151,412
3,129,075	56 : 3,124,430	3,148,460	3,154,871	77 : 3,138,889
3,122,844	57 : 3,127,250	3,148,460	3,154,871	79 : 3,123,929
3,161,482	62 : 3,140,928	3,148,460	3,154,871	80 : 3,153,296
3,136,611	63 : 3,136,611	3,148,460	3,154,871	81 : 3,150,459
3,135,589	64 : 3,135,589	3,148,460	3,154,871	82 : 3,156,062
3,121,000	65 : 3,121,000	3,148,460	3,154,871	83 : 3,156,062
3,146,077	66 : 3,146,077	3,148,460	3,154,871	84 : 3,156,062
3,131,035	67 : 3,131,035	3,148,460	3,154,871	85 : 3,156,062
3,132,929	68 : 3,132,929	3,148,460	3,154,871	86 : 3,156,062
3,141,244	69 : 3,141,244	3,148,460	3,154,871	87 : 3,156,062
3,116,984	70 : 3,116,984	3,148,460	3,154,871	88 : 3,156,062
3,132,006	71 : 3,132,006	3,148,460	3,154,871	89 : 3,156,062
3,128,160	72 : 3,128,160	3,148,460	3,154,871	90 : 3,156,062
3,148,956	73 : 3,148,956	3,148,460	3,154,871	91 : 3,156,062
3,155,462	74 : 3,155,462	3,148,460	3,154,871	92 : 3,156,062
3,133,797	75 : 3,133,797	3,148,460	3,154,871	93 : 3,156,062
3,158,448	76 : 3,158,448	3,148,460	3,154,871	94 : 3,156,062
3,136,612	77 : 3,136,612	3,148,460	3,154,871	95 : 3,156,062
3,157,475	92 : 3,157,475	3,148,460	3,154,871	96 : 3,156,062
3,118,742	93 : 3,118,742	3,148,460	3,154,871	97 : 3,156,062
3,125,423	94 : 3,125,423	3,148,460	3,154,871	98 : 3,156,062
3,132,930	95 : 3,132,930	3,148,460	3,154,871	99 : 3,156,062
3,151,952	100 : 3,151,952	3,148,460	3,154,871	101 : 3,156,062
3,122,427	101 : 3,122,427	3,148,460	3,154,871	102 : 3,156,062
3,131,036	102 : 3,131,036	3,148,460	3,154,871	103 : 3,156,062
3,148,957	103 : 3,148,957	3,148,460	3,154,871	104 : 3,156,062
3,152,874	104 : 3,152,874	3,148,460	3,154,871	105 : 3,156,062
3,159,466	105 : 3,159,466	3,148,460	3,154,871	106 : 3,156,062
3,152,875	106 : 3,152,875	3,148,460	3,154,871	107 : 3,156,062
3,154,392	107 : 3,154,392	3,148,460	3,154,871	108 : 3,156,062
3,116,985	108 : 3,116,985	3,148,460	3,154,871	109 : 3,156,062
3,118,743	109 : 3,118,743	3,148,460	3,154,871	110 : 3,156,062
3,134,653	110 : 3,134,653	3,148,460	3,154,871	111 : 3,156,062
3,161,484	111 : 3,161,484	3,148,460	3,154,871	112 : 3,156,062
3,163,502	112 : 3,163,502	3,148,460	3,154,871	113 : 3,156,062
3,122,428	113 : 3,122,428	3,148,460	3,154,871	114 : 3,156,062
3,132,931	114 : 3,132,931	3,148,460	3,154,871	115 : 3,156,062
3,140,157	115 : 3,140,157	3,148,460	3,154,871	116 : 3,156,062
3,149,930	116 : 3,149,930	3,148,460	3,154,871	117 : 3,156,062
3,151,953	117 : 3,151,953	3,148,460	3,154,871	118 : 3,156,062
3,123,449	118 : 3,123,449	3,148,460	3,154,871	119 : 3,156,062
3,163,503	119 : 3,163,503	3,148,460	3,154,871	120 : 3,156,062
3,146,078	120 : 3,146,078	3,148,460	3,154,871	121 : 3,156,062
3,121,621	121 : 3,121,621	3,148,460	3,154,871	122 : 3,156,062
3,140,158	122 : 3,140,158	3,148,460	3,154,871	123 : 3,156,062
3,124,431	123 : 3,124,431	3,148,460	3,154,871	124 : 3,156,062
3,142,546	124 : 3,142,546	3,148,460	3,154,871	125 : 3,156,062
3,140,929	125 : 3,140,929	3,148,460	3,154,871	126 : 3,156,062
3,152,876	126 : 3,152,876	3,148,460	3,154,871	127 : 3,156,062
3,121,001	127 : 3,121,001	3,148,460	3,154,871	128 : 3,156,062
3,125,424	128 : 3,125,424	3,148,460	3,154,871	129 : 3,156,062
3,140,159	129 : 3,140,159	3,148,460	3,154,871	130 : 3,156,062
3,149,931	130 : 3,149,931	3,148,460	3,154,871	131 : 3,156,062
3,151,954	131 : 3,151,954	3,148,460	3,154,871	132 : 3,156,062
3,140,930	132 : 3,140,930	3,148,460	3,154,871	133 : 3,156,062
3,134,654	133 : 3,134,654	3,148,460	3,154,871	134 : 3,156,062
3,147,090	134 : 3,147,090	3,148,460	3,154,871	135 : 3,156,062
3,138,437	135 : 3,138,437	3,148,460	3,154,871	136 : 3,156,062
3,160,482	136 : 3,160,482	3,148,460	3,154,871	137 : 3,156,062
3,151,955	137 : 3,151,955	3,148,460	3,154,871	138 : 3,156,062
3,158,449	138 : 3,158,449	3,148,460	3,154,871	139 : 3,156,062
3,143,397	139 : 3,143,397	3,148,460	3,154,871	140 : 3,156,062
3,159,467	140 : 3,159,467	3,148,460	3,154,871	141 : 3,156,062
3,156,541	141 : 3,156,541	3,148,460	3,154,871	142 : 3,156,062
3,140,161	142 : 3,140,161	3,148,460	3,154,871	143 : 3,156,062
3,128,161	143 : 3,128,161	3,148,460	3,154,871	144 : 3,156,062
3,159,468	144 : 3,159,468	3,148,460	3,154,871	145 : 3,156,062
3,160,483	145 : 3,160,483	3,148,460	3,154,871	146 : 3,156,062
3,161,485	146 : 3,161,485	3,148,460	3,154,871	147 : 3,156,062

Class 37

2 : 3,129,521

3,143,813

3,159,927

3,118,236

3,126,649

3,128,564

3,137,949

3,145,485

3,148,460

3,160,965

3,125,818

3,144,721

3,149,424

3,131,485

3,136,074

3,137,079

3,137,948

3,139,688

3,152,406

3,139,689

3,141,243

3,141,244

3,144,720

3,146,538

3,146,532

3,148,457

3,151,403

3,152,403

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Class 51—(Continued)

Class 51—(Con.)	232	3,120,085	26	3,119,213	182	3,135,077	32	3,151,959	315	3,120,432	254	3,133,390	
		3,151,421		3,124,914		3,160,914		3,162,515		3,146,081	4	3,134,212	
165	3,147,574	235	3,134,208		3,133,366	184	3,148,262	33	3,118,747	316	3,142,549	4	3,135,081
	3,151,422	236	3,118,260		3,135,076		3,128,584		3,121,002		3,119,940	4	3,136,106
	3,156,075		3,130,526	27	3,124,915	186	3,120,089		3,123,453	317	3,162,518	4	3,136,107
	3,157,007		3,132,154		3,145,515		3,153,309		3,130,021	344	3,147,979	4	3,136,108
	3,157,969		3,140,569	28	3,120,726		3,161,002		3,137,549	346	3,147,979	4	3,138,910
	3,157,970	237	3,120,725		3,127,718		3,126,681	190	3,155,517	346	3,151,063	4	3,141,283
	3,157,971		3,125,837		3,140,572	192	3,154,899	35	3,161,489	376	3,151,942	4	3,142,950
166	3,129,537		3,128,582		3,150,173		3,139,715	36	3,157,478	376	3,132,032	4	3,145,519
	3,129,538		3,159,953	29	3,120,727	198	3,122,870	38	3,129,076	378	3,131,034	4	3,148,490
	3,135,071	238	3,123,939	30	3,123,955		3,126,686	40	3,121,621	386	3,149,941	4	3,150,479
	3,137,101		3,124,912		3,125,839		3,129,548	46	3,163,508	387	3,126,264	4	3,152,431
	3,142,945		3,145,513		3,126,682		3,141,877	48	3,132,012	388	3,158,456	4	3,154,903
		240	3,133,385		3,133,387		3,150,175	52	3,134,655	407	3,137,552	4	3,157,015
168	3,141,268	241	3,117,401		3,134,210	201	3,132,455	53	3,132,013		3,141,750	26	3,130,532
	3,144,736		3,118,261		3,144,898	206	3,133,391	58	3,121,625	409	3,150,944	5	3,119,222
170	3,119,207		3,119,209		3,161,999		3,154,900		3,119,931	417	3,157,481	5	3,134,211
	3,136,099		3,135,074	32	3,153,308	214	3,135,078	66	3,155,499		3,160,487	27	3,125,082
	3,137,105		3,142,139	33	3,139,712	226	3,133,392	67	3,136,616	418	3,155,474	28	3,135,082
	3,148,486		3,146,562	45	3,119,214	227	3,131,522		3,156,546	419	3,147,100		3,133,840
	3,151,423	243	3,154,895		3,123,956	228	3,125,811	68	3,127,254	431	3,137,553		3,135,083
	3,159,951	245	3,119,210	36	3,117,404	230	3,127,722		3,140,932	431	3,134,658		3,143,841
	3,160,995	247	3,157,008		3,119,215	231	3,136,101		3,140,933	442	3,140,937		3,146,491
173	3,122,865	249	3,139,710	37	3,124,916	236	3,119,217	71	3,134,656	442	3,158,457		3,151,431
174	3,123,944		3,149,444		3,162,000		3,128,585		3,140,934	481	3,118,749		3,156,080
	3,146,558	250	3,120,086	38	3,140,570		3,137,101		3,143,402	483	3,133,802	31	3,144,734
175	3,148,487	262	3,123,950	39	3,119,216	247	3,136,106	80	3,138,140	484	3,124,440	33	3,123,963
176	3,137,106		3,123,951		3,140,571	248	3,142,111	84	3,149,935	491	3,132,015	34	Re 25,667
	3,161,991	263	3,162,986		3,160,999	250	3,150,176	89	3,142,548	492	3,123,456	11	3,128,587
177	3,121,911	267	3,148,488	41	3,151,426	251	3,133,393	90	3,155,592	493	3,150,945		3,137,113
	3,128,581		3,152,426	42	3,120,728	255	3,152,430	94	3,151,960	495	3,142,550		3,142,142
	3,129,539		3,153,385		3,127,719		3,161,003	96	3,146,080		3,149,942		3,151,432
	3,156,059	273	3,137,108		3,151,427	258	3,131,523	97	3,155,470	499	3,127,258	42	3,137,114
178	3,158,486		3,157,009	44	3,151,427	266	3,120,730	98	3,162,516		3,138,443		3,156,081
181	3,118,259	277	3,136,102	47	3,138,905	268	3,119,218	105	3,147,004		3,158,458	44	3,116,584
184.3	3,116,573		3,146,563	48	3,127,720	316	3,137,982	112	3,158,453	500	3,124,441	48	3,137,983
	3,123,945		3,152,127		3,129,542	319	3,141,278	114	3,149,936		3,154,933		3,137,115
	3,138,902	281	3,120,087		3,130,527	329	3,116,580	118	3,156,547	501	3,123,457	50	3,128,588
185	3,116,574		3,123,952		3,137,109	333	3,134,211		3,159,471	502	3,161,491	98	3,120,090
	3,126,677		3,125,838		3,141,274	361	3,162,002		3,159,472	503	3,130,025	107	3,126,690
	3,131,518		3,141,272		3,144,740	370	3,150,177		3,150,178	505	3,129,079	119	3,119,221
	3,144,737		3,156,076		3,162,988		3,137,111	131	3,137,949	507	3,147,101		3,119,222
	3,147,575		3,160,997	50	3,121,300	373	3,144,837	137	3,149,937	511	3,127,259		3,126,691
	3,150,170		3,161,996	51	3,140,571		3,127,721	139	3,140,935	519	3,136,617		3,139,718
186	3,123,946	283	3,120,088	53	3,127,721		3,113,835		3,154,901		3,163,510	121.46	3,151,433
187	3,123,947		3,123,953		3,158,971		3,139,528	374	3,146,566	524	3,118,750	192	3,149,449
	3,127,714		3,127,714		3,162,989		3,147,576		3,157,479			199	3,129,535
	3,129,540	284	Re 25,620		3,149,713	376	3,123,960	146	3,157,479			202	3,132,012
188	3,146,560		3,123,954		3,142,947		3,131,521	156	3,143,403				3,133,390
193	3,120,724		3,141,273		3,142,948		3,137,112	158	3,132,014	1	3,116,581		3,134,213
	3,137,107		3,142,140	59	3,152,428		3,143,838	159	3,131,040		3,116,582		3,134,214
	3,146,575	288	3,117,402	61	3,139,954		3,157,975	162	3,155,471		3,160,996	214	3,143,843
	3,146,576		3,162,987	64	3,120,729	379	3,157,975		3,155,471		3,126,687		3,143,844
	3,141,269	290	3,134,209		3,129,544	380	3,139,716		3,160,996		3,128,586	218	3,121,920
	3,144,738	291	3,150,171	66	3,150,171	381	3,133,394	163	3,147,095		3,146,568	220	3,145,520
	3,142,152	293	3,121,623		3,158,973	382	3,141,279	178	3,127,255		3,146,569		3,158,970
194	3,125,835		3,127,253	67	3,121,984	385	3,138,907		3,155,472		3,153,889	228	3,142,141
	3,129,541		3,131,039	68	3,129,543	387	3,126,678		3,144,314		3,158,974	229	3,140,571
195	3,119,208		3,133,801	74	3,121,301		3,145,518	182	3,130,022		3,158,975	235	3,138,911
	3,121,208		3,148,963	74	3,121,957	390	3,111,280	197	3,156,548	2	3,156,079		3,157,011
	3,139,709	297	3,116,586	86	3,124,917		3,146,567	206	3,123,454	6	3,116,583	241	3,123,822
	3,149,442		3,136,611	88	3,152,429	391	3,161,001		3,147,096		3,145,079		3,157,011
196	3,149,443	298	3,126,262		3,157,974		3,157,974	204	3,149,939		3,157,011	249	3,144,734
204	3,124,948		3,135,590		3,159,951		3,159,951	205	3,151,961	8	3,140,531	255	3,118,266
	3,154,893		3,126,645	112	3,129,545		3,144,731		3,161,991		3,133,395	31	3,123,964
205	3,120,084	307	3,123,452		3,133,388		3,133,388		3,161,991		3,133,395	288	3,139,711
	3,141,270		3,128,165	115	3,121,985	6	3,149,148	208	3,143,401		3,143,401		3,143,845
	3,153,907		3,136,615		3,137,979		3,144,731	219	3,130,021	11	3,147,095		3,143,846
206	3,127,715		3,141,746		3,157,012		3,153,887	222	3,116,988	12	3,124,920	294	3,122,867
	3,141,271		3,155,466	117	3,131,519	44	3,157,975	227	3,130,021	14	3,162,988	295	Re 25,621
	3,142,138	309	3,141,747	119	3,128,583	46	3,130,530		3,138,441	15	3,162,989		3,140,572
	3,145,511		3,145,511	120	3,145,516	49	3,157,975		3,138,442	15	3,159,959		3,152,433
	3,154,894	312	3,137,978		3,161,000	71	3,161,000		3,138,443	16	3,127,724		3,156,080
	3,159,952	313	3,160,998	122	3,122,869	82	3,119,219	228	3,123,455		3,140,281		3,157,970
	3,146,561	316	3,116,578		3,126,683		3,121,919	230	3,148,012	17	3,144,733		3,158,971
5	3,144,739		3,161,997		3,129,546	83	3,153,888	233	3,127,256	19	3,142,949		3,162,989
207	3,121,981	317	3,139,711	123	3,123,958		3,157,013	234	3,163,509		3,162,003	296	3,151,434
	3,117,400	319	3,149,445		3,130,529		3,133,391	235	3,131,011	20	3,125,843		3,156,080
	3,121,982	328	3,154,896		3,141,275		3,139,331	237	3,139,331		3,138,908	297	3,157,011
	3,121,982		3,157,972		3,141,276		3,116,989	257	3,116,989	23	3,118,265		3,157,011
	3,136,100	377	3,158,972	124	3,138,906	13	3,121,137		3,119,939		3,118,265		3,157,011
	3,142,946		3,158,972		3,143,836	15	3,151,959		3,140,161		3,127,724	305	3,162,989
	3,161,995	379	3,151,425		3,162,001	16	3,135,591	261	3,150,943		3,139,717	306	3,148,491
211	3,135,072		3,157,973		3,162,001		3,144,733	263	3,144,655		3,144,655	307	3,146,561
	3,127,716	392	3,156,077	125	3,121,918		3,155,467	269	3,129,077	24	3,135,080		3,143,847
	3,160,996	399	3,151,897	128	3,137,980	17	3,129,075		3,137,551		3,138,909	312	3,

CLASSIFICATION OF PATENTS

341	: 3,117,406	56	: 3,129,553	157	: 3,116,588	126	: 3,148,500	30	: 3,147,588	35.6	: 3,116,601	39.02	: 3,139,726	
	3,132,459	58.3	: 3,126,606		3,116,589		3,162,008	31	: 3,130,541	6	: 3,117,417		02: 3,161,020	
	3,153,890	3	: 3,153,893		3,120,095	140	: 3,120,098	32	: 3,162,999	6	: 3,118,276		.08: 3,154,919	
354	: 3,141,284	32	: 3,142,952		3,123,973		3,146,582	35.3	: 3,120,736	6	: 3,120,100		.09: 3,158,999	
364	: 3,125,845	49	: 3,145,524		3,136,112	141	: 3,147,584	3	: 3,128,955	6	: 3,120,101		.14: 3,117,418	
	3,126,693	49	: 3,159,962		3,137,119	142	: 3,140,580	3	: 3,137,126	6	: 3,120,737		.14: 3,133,414	
366	: 3,127,526	52	: 3,119,224		3,152,436		3,141,292	3	: 3,137,127	6	: 3,121,309		.14: 3,133,415	
	3,143,846	63	: 3,147,581		3,155,982	143	: 3,120,735	3	: 3,157,988	6	: 3,121,309		.14: 3,137,999	
370	: 3,158,979	7	: 3,138,914		3,159,964		3,152,849	3	: 3,158,990	6	: 3,121,310		.14: 3,138,924	
372	: 3,127,727	7	: 3,147,580		3,162,995		3,151,442	4	: 3,117,415	6	: 3,121,993		.14: 3,145,532	
	3,132,460	76	: 3,158,991	160	: 3,126,609	145	: 3,136,117	4	: 3,118,275	6	: 3,122,883		.14: 3,151,450	
	3,133,399	76	: 3,153,894		3,136,113	146	: 3,117,413	4	: 3,120,699	6	: 3,122,884		.14: 3,151,451	
	3,159,960	83	: 3,121,989		3,137,991	152	: 3,157,985	4	: 3,121,992	6	: 3,122,885		.14: 3,151,452	
377	: 3,117,407	83	: 3,132,464		3,138,995			4	: 3,125,852	6	: 3,125,853		.14: 3,157,993	
	3,121,305	86	: 3,133,403		3,146,576	Class 59		4	: 3,126,701	6	: 3,126,702		.15: 3,153,907	
	3,123,966	89	: 3,121,306	161	: 3,124,927			4	: 3,127,735	6	: 3,127,737		.15: 3,159,000	
	3,124,921	89	: 3,125,847		3,130,536	7	: 3,147,585	4	: 3,127,736	6	: 3,127,738		.16: 3,122,886	
	3,124,922	89	: 3,126,697	162	: 3,137,120		3,156,007	4	: 3,128,596	6	: 3,127,739		.16: 3,133,416	
	3,128,589	89	: 3,132,465	164	: 3,127,732	8	: 3,125,850	4	: 3,128,597	6	: 3,127,740		.16: 3,152,443	
	3,133,400	91	: 3,127,730		3,151,439		3,153,897	4	: 3,136,119	6	: 3,128,598		.16: 3,152,444	
	3,145,522	99	: 3,140,577		3,157,983	35	: 3,128,953	4	: 3,137,993	6	: 3,128,599		.16: 3,154,918	
	3,146,571	62	: 3,123,968	165	: 3,147,582		3,135,085	4	: 3,139,724	6	: 3,128,600		.16: 3,161,021	
	3,149,450		3,146,573			77	: 3,151,443	4	: 3,140,582	6	: 3,128,601		.17: 3,146,594	
	3,151,435	67	: 3,117,409	Class 58		78	: 3,147,586	4	: 3,141,294	6	: 3,129,560		.18: 3,137,130	
	3,157,979	73	: 3,141,286		4	: 3,152,437	79	: 3,132,470	4	: 3,141,295	6	: 3,129,561		.18: 3,138,000
400	: 3,120,692	75	: 3,119,225		11	: 3,135,084		3,133,406	4	: 3,142,151	6	: 3,129,562		.18: 3,138,925
	3,127,728	76	: 3,143,845	24	: 3,158,986		3,135,086	4	: 3,147,580	6	: 3,147,581		.18: 3,148,503	
	3,148,194	77.4	: 3,156,084		13	: 3,158,986		3,157,123	4	: 3,145,528	6	: 3,131,535		.18: 3,150,487
	3,151,436	45	: 3,123,969		12	: 3,127,733		3,138,917	4	: 3,147,589	6	: 3,131,536		.18: 3,159,970
	3,157,019	45	: 3,136,110		13	: 3,126,700		3,140,581	4	: 3,149,458	6	: 3,132,475		2 : 3,138,923
474	: 3,140,533	45	: 3,142,953		13	: 3,136,111		3,146,583	4	: 3,150,482	6	: 3,133,409		25: 3,134,931
504	: 3,161,008	79	: 3,134,217	22.9	: 3,142,954		3,158,999	4	: 3,151,445	6	: 3,133,410		25: 3,132,480	
	3,121,987	81	: 3,132,466	9	: 3,143,847	80	: 3,147,587	4	: 3,153,901	6	: 3,133,411		.28: 3,123,974	
	3,147,577	82	: 3,141,287	9	: 3,146,577	81	: 3,139,720	4	: 3,153,902	6	: 3,134,222		.28: 3,124,932	
Class 57		84	: 3,116,590	9	: 3,158,987		3,153,898	4	: 3,153,903	6	: 3,134,223		.28: 3,128,603	
		84	: 3,153,312	23	: 3,118,274	85	: 3,121,308	4	: 3,156,089	6	: 3,134,224		.28: 3,129,563	
1	: 3,132,461	86	: 3,162,005		3,129,554		3,134,221	4	: 3,157,989	6	: 3,135,088		.28: 3,138,926	
	3,134,216	88	: 3,116,591		3,137,992	88	: 3,144,748	4	: 3,157,990	6	: 3,135,089		.28: 3,139,727	
	3,145,523		3,118,271	24	: 3,137,121	91	: 3,124,929	4	: 3,158,991	6	: 3,135,090		.28: 3,142,154	
	3,146,572		3,122,875	26	: 3,136,115	95	: 3,152,443	4	: 3,158,993	6	: 3,136,121		.28: 3,146,591	
	3,154,904		3,128,591		3,148,497			4	: 3,158,994	6	: 3,137,128		.28: 3,159,001	
	3,159,961		3,137,118		3,148,198	Class 60		4	: 3,158,995	6	: 3,137,129		.31: 3,146,604	
3.5	: 3,154,905		3,141,288		3,157,984	1	: 3,129,559	4	: 3,161,016	6	: 3,137,130		.31: 3,148,504	
9	: 3,130,534	94	: 3,120,731	28	: 3,122,879		3,129,559	5	: 3,117,416	6	: 3,137,131		.32: 3,121,995	
	3,142,145	98	: 3,150,480		3,130,535	6	: 3,132,471	5	: 3,119,232	6	: 3,137,132		.34: 3,121,511	
10	: 3,161,009	99	: 3,123,970		3,134,220		3,139,721	5	: 3,119,233	6	: 3,137,133		.34: 3,145,533	
	3,162,992	104	: 3,134,218		3,141,290		3,153,317	5	: 3,122,882	6	: 3,137,135		.35: 3,118,277	
12	: 3,144,746	105	: 3,119,226		3,133,848	7	: 3,154,913	5	: 3,122,883	6	: 3,137,136		.35: 3,120,739	
13	: 3,126,694		3,120,732		3,147,586		3,161,011	5	: 3,122,884	6	: 3,137,137		.35: 3,130,545	
	3,137,983		3,131,529		3,151,440	10.5	: 3,128,594	5	: 3,141,296	6	: 3,137,998		.36: 3,118,278	
	3,146,576		3,112,146		3,153,896	5	: 3,148,501	5	: 3,149,459	6	: 3,138,919		.36: 3,128,703	
	3,141,285		3,152,443		3,158,988	5	: 3,157,986	5	: 3,150,483	6	: 3,138,920		.36: 3,150,456	
	3,158,980	117	: 3,157,020		3,161,012	12	: 3,127,734	5	: 3,156,090	6	: 3,138,921		.36: 3,163,003	
17	: 3,122,872	119	: 3,132,467		3,162,996		3,151,444	5	: 3,159,966	6	: 3,141,297		.37: 3,119,234	
	3,124,923		3,148,496	34	: 3,148,499		3,161,015	5	: 3,159,967	6	: 3,141,298		.38: 3,125,854	
	3,138,913		3,159,963	38	: 3,154,911	13	: 3,119,229	5	: 3,116,602	6	: 3,141,299		.43: 3,156,093	
18	: 3,124,924	120	: 3,118,272	41	: 3,161,013		3,121,991	5	: 3,116,603	6	: 3,141,300		.45: 3,159,002	
	3,126,695		3,123,971	50	: 3,145,526		3,136,118	5	: 3,120,102	6	: 3,142,152		.46: 3,132,481	
	3,133,401	124	: 3,122,876		3,146,578		3,141,293	5	: 3,121,312	6	: 3,142,959		.46: 3,132,482	
	3,152,433	125	: 3,133,404	54	: 3,132,466		3,142,957	5	: 3,121,991	6	: 3,142,960		.46: 3,134,227	
	3,157,980		3,134,219	56	: 3,162,997		3,143,849	5	: 3,127,741	6	: 3,143,851		.46: 3,141,301	
22	: 3,119,451		3,141,289	57	: 3,124,928		3,144,749	5	: 3,128,602	6	: 3,143,852		.46: 3,147,592	
25	: 3,151,437		3,157,981	58	: 3,129,555		3,149,454	5	: 3,130,543	6	: 3,143,853		.46: 3,147,593	
31	: 3,162,004	129	: 3,122,877	59	: 3,121,990		3,152,444	5	: 3,130,544	6	: 3,143,854		.47: 3,126,704	
32	: 3,122,873	130	: 3,120,994		3,129,556		3,153,318	5	: 3,131,537	6	: 3,143,855		.47: 3,162,022	
	3,131,527		3,162,994		3,138,916		3,157,987	5	: 3,132,476	6	: 3,144,751		.47: 3,138,927	
34	: 3,118,269	132	: 3,153,313		3,146,579		3,162,998	5	: 3,132,477	6	: 3,145,529		.48: 3,127,743	
	3,122,874	135	: 3,133,404	63	: 3,120,696		3,156,088	5	: 3,132,478	6	: 3,145,530		.48: 3,130,546	
	3,127,729	136	: 3,128,590		3,162,001	14	: 3,139,722	5	: 3,133,412	6	: 3,146,584		.48: 3,135,092	
	3,128,590	140	: 3,117,362	73	: 3,151,431		3,133,850	5	: 3,133,413	6	: 3,149,460		.48: 3,136,123	
	3,130,535		3,117,410		3,119,227	16	: 3,137,124	5	: 3,134,225	6	: 3,149,461		.48: 3,138,001	
	3,131,528		3,120,733	80	: 3,142,955	17	: 3,130,540	5	: 3,134,226	6	: 3,150,484		.48: 3,138,928	
	3,132,462		3,123,972	85.5	: 3,116,592	18	: 3,116,595	5	: 3,135,091	6	: 3,150,485		.48: 3,138,929	
	3,133,402		3,129,526		3,116,593		3,153,899	5	: 3,139,725	6	: 3,151,446		.51: 3,116,605	
	3,137,986		3,125,848		3,116,594	19	: 3,119,230	5	: 3,140,583	6	: 3,151,447		.51: 3,145,534	
	3,142,951		3,136,111		3,129,557		3,143,407	5	: 3,143,856	6	: 3,151,448		.52: 3,125,855	
	3,144,747		3,137,989		3,129,558		3,135,087	5	: 3,144,752	6	: 3,151,449		.55: 3,134,228	
	3,147,578		3,137,990		3,140,578		3,139,723	5	: 3,145,531	6	: 3,153,319		.65: 3,132,483	
	3,147,579		3,142,147		3,141,291		3,148,502	5	: 3,146,585	6	: 3,153,320		.65: 3,132,484	
	3,153,891		3,145,525		3,142,956		3,153,900	5	: 3,146,586	6	: 3,153,901		.65: 3,134,229	
	3,153,892		3,146,574		3,151,441		3,159,965	5	: 3,146,587	6	: 3,153,902		.65: 3,138,930	
	3,154,906		3,157,023	23	: 3,132,472		3,132,472	5	: 3,146,588	6	: 3,154,914		.66: 3,142,155	
	3,154,907		3,150,481	87	: 3,130,538		3,142,149	5	: 3,147,590	6	: 3,154,915		.66: 3,162,012	
	3,161,010		3,152,435	88	: 3,140,579		3,149,455	5	: 3,150,486	6	: 3,156,091		.71: 3,153,323	
	3,162,993		3,153,315											

Class 60—Cont.		54.5 : 3,119,235	42 : 3,143,861	13 : 3,129,080	126 : 3,120,108	256 : 3,139,738	443 : 3,153,918
		5 : 3,120,104	45 : 3,120,105	14 : 3,123,406	129 : 3,122,001	453 : 3,122,006	3,153,919
39.82 : 3,136,126		5 : 3,130,549	5 : 3,126,708	15 : 3,126,265	130 : 3,126,016	454 : 3,137,147	3,137,147
82 : 3,148,505		5 : 3,130,550	5 : 3,127,748	16 : 3,132,016	131 : 3,126,137	455 : 3,162,023	3,162,023
82 : 3,154,920		5 : 3,133,419	5 : 3,143,862	17 : 3,130,920	132 : 3,121,314	456 : 3,161,031	3,161,031
82 : 3,156,094		5 : 3,135,094	5 : 3,159,003	18 : 3,123,457	133 : 3,149,473	457 : 3,140,590	3,140,590
82 : 3,162,013		5 : 3,136,130	5 : 3,163,011	19 : 3,126,266	134 : 3,147,601	458 : 3,159,012	3,159,012
19 : 3,127,744		5 : 3,140,586	5 : 3,163,012	20 : 3,126,266	135 : 3,126,714	459 : 3,133,429	3,133,429
51 : 3,116,607		5 : 3,141,302	46 : 3,117,423	21 : 3,130,027	136 : 3,144,755	460 : 3,149,478	3,149,478
		5 : 3,145,536	5 : 3,121,997	22 : 3,127,748	137 : 3,126,714	461 : 3,128,610	3,128,610
		5 : 3,146,596	5 : 3,134,234	23 : 3,127,748	138 : 3,144,755	462 : 3,127,755	3,127,755
		5 : 3,152,448	5 : 3,134,235	24 : 3,127,748	139 : 3,144,755	463 : 3,127,755	3,127,755
		5 : 3,152,449	5 : 3,145,538	25 : 3,119,677	140 : 3,134,238	464 : 3,127,755	3,127,755
		5 : 3,156,096	5 : 3,161,027	26 : 3,127,748	141 : 3,122,002	465 : 3,127,755	3,127,755
		5 : 3,157,032	5 : 3,118,283	27 : 3,126,267	142 : 3,122,002	466 : 3,127,755	3,127,755
52 : Re. 25,638		5 : 3,158,000	5 : 3,120,106	28 : 3,126,267	143 : 3,122,002	467 : 3,127,755	3,127,755
		5 : 3,158,001	5 : 3,128,604	29 : 3,126,267	144 : 3,122,002	468 : 3,127,755	3,127,755
		5 : 3,162,017	5 : 3,138,931	30 : 3,131,045	145 : 3,122,002	469 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	31 : 3,126,267	146 : 3,122,002	470 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	32 : 3,126,267	147 : 3,122,002	471 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	33 : 3,126,267	148 : 3,122,002	472 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	34 : 3,126,267	149 : 3,122,002	473 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	35 : 3,126,267	150 : 3,122,002	474 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	36 : 3,126,267	151 : 3,122,002	475 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	37 : 3,126,267	152 : 3,122,002	476 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	38 : 3,126,267	153 : 3,122,002	477 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	39 : 3,126,267	154 : 3,122,002	478 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	40 : 3,126,267	155 : 3,122,002	479 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	41 : 3,126,267	156 : 3,122,002	480 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	42 : 3,126,267	157 : 3,122,002	481 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	43 : 3,126,267	158 : 3,122,002	482 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	44 : 3,126,267	159 : 3,122,002	483 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	45 : 3,126,267	160 : 3,122,002	484 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	46 : 3,126,267	161 : 3,122,002	485 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	47 : 3,126,267	162 : 3,122,002	486 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	48 : 3,126,267	163 : 3,122,002	487 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	49 : 3,126,267	164 : 3,122,002	488 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	50 : 3,126,267	165 : 3,122,002	489 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	51 : 3,126,267	166 : 3,122,002	490 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	52 : 3,126,267	167 : 3,122,002	491 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	53 : 3,126,267	168 : 3,122,002	492 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	54 : 3,126,267	169 : 3,122,002	493 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	55 : 3,126,267	170 : 3,122,002	494 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	56 : 3,126,267	171 : 3,122,002	495 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	57 : 3,126,267	172 : 3,122,002	496 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	58 : 3,126,267	173 : 3,122,002	497 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	59 : 3,126,267	174 : 3,122,002	498 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	60 : 3,126,267	175 : 3,122,002	499 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	61 : 3,126,267	176 : 3,122,002	500 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	62 : 3,126,267	177 : 3,122,002	501 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	63 : 3,126,267	178 : 3,122,002	502 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	64 : 3,126,267	179 : 3,122,002	503 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	65 : 3,126,267	180 : 3,122,002	504 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	66 : 3,126,267	181 : 3,122,002	505 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	67 : 3,126,267	182 : 3,122,002	506 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	68 : 3,126,267	183 : 3,122,002	507 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	69 : 3,126,267	184 : 3,122,002	508 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	70 : 3,126,267	185 : 3,122,002	509 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	71 : 3,126,267	186 : 3,122,002	510 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	72 : 3,126,267	187 : 3,122,002	511 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	73 : 3,126,267	188 : 3,122,002	512 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	74 : 3,126,267	189 : 3,122,002	513 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	75 : 3,126,267	190 : 3,122,002	514 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	76 : 3,126,267	191 : 3,122,002	515 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	77 : 3,126,267	192 : 3,122,002	516 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	78 : 3,126,267	193 : 3,122,002	517 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	79 : 3,126,267	194 : 3,122,002	518 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	80 : 3,126,267	195 : 3,122,002	519 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	81 : 3,126,267	196 : 3,122,002	520 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	82 : 3,126,267	197 : 3,122,002	521 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	83 : 3,126,267	198 : 3,122,002	522 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	84 : 3,126,267	199 : 3,122,002	523 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	85 : 3,126,267	200 : 3,122,002	524 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	86 : 3,126,267	201 : 3,122,002	525 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	87 : 3,126,267	202 : 3,122,002	526 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	88 : 3,126,267	203 : 3,122,002	527 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	89 : 3,126,267	204 : 3,122,002	528 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	90 : 3,126,267	205 : 3,122,002	529 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	91 : 3,126,267	206 : 3,122,002	530 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	92 : 3,126,267	207 : 3,122,002	531 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	93 : 3,126,267	208 : 3,122,002	532 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	94 : 3,126,267	209 : 3,122,002	533 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	95 : 3,126,267	210 : 3,122,002	534 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	96 : 3,126,267	211 : 3,122,002	535 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	97 : 3,126,267	212 : 3,122,002	536 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	98 : 3,126,267	213 : 3,122,002	537 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	99 : 3,126,267	214 : 3,122,002	538 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	100 : 3,126,267	215 : 3,122,002	539 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	101 : 3,126,267	216 : 3,122,002	540 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	102 : 3,126,267	217 : 3,122,002	541 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	103 : 3,126,267	218 : 3,122,002	542 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	104 : 3,126,267	219 : 3,122,002	543 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	105 : 3,126,267	220 : 3,122,002	544 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	106 : 3,126,267	221 : 3,122,002	545 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	107 : 3,126,267	222 : 3,122,002	546 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	108 : 3,126,267	223 : 3,122,002	547 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	109 : 3,126,267	224 : 3,122,002	548 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	110 : 3,126,267	225 : 3,122,002	549 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	111 : 3,126,267	226 : 3,122,002	550 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	112 : 3,126,267	227 : 3,122,002	551 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	113 : 3,126,267	228 : 3,122,002	552 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	114 : 3,126,267	229 : 3,122,002	553 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	115 : 3,126,267	230 : 3,122,002	554 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	116 : 3,126,267	231 : 3,122,002	555 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	117 : 3,126,267	232 : 3,122,002	556 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932	118 : 3,126,267	233 : 3,122,002	557 : 3,127,755	3,127,755
		5 : 3,163,007	5 : 3,138,932</				

73	78	83	88	93	98	103	108	113	118	123	128	133	138	143	148	153	158	163	168	173	178	183	188	193	198	203	208	213	218	223	228	233	238	243	248	253	258	263	268	273	278	283	288	293	298	303	308	313	318	323	328	333	338	343	348	353	358	363	368	373	378	383	388	393	398	403	408	413	418	423	428	433	438	443	448	453	458	463	468	473	478	483	488	493	498	503	508	513	518	523	528	533	538	543	548	553	558	563	568	573	578	583	588	593	598	603	608	613	618	623	628	633	638	643	648	653	658	663	668	673	678	683	688	693	698	703	708	713	718	723	728	733	738	743	748	753	758	763	768	773	778	783	788	793	798	803	808	813	818	823	828	833	838	843	848	853	858	863	868	873	878	883	888	893	898	903	908	913	918	923	928	933	938	943	948	953	958	963	968	973	978	983	988	993	998	1003	1008	1013	1018	1023	1028	1033	1038	1043	1048	1053	1058	1063	1068	1073	1078	1083	1088	1093	1098	1103	1108	1113	1118	1123	1128	1133	1138	1143	1148	1153	1158	1163	1168	1173	1178	1183	1188	1193	1198	1203	1208	1213	1218	1223	1228	1233	1238	1243	1248	1253	1258	1263	1268	1273	1278	1283	1288	1293	1298	1303	1308	1313	1318	1323	1328	1333	1338	1343	1348	1353	1358	1363	1368	1373	1378	1383	1388	1393	1398	1403	1408	1413	1418	1423	1428	1433	1438	1443	1448	1453	1458	1463	1468	1473	1478	1483	1488	1493	1498	1503	1508	1513	1518	1523	1528	1533	1538	1543	1548	1553	1558	1563	1568	1573	1578	1583	1588	1593	1598	1603	1608	1613	1618	1623	1628	1633	1638	1643	1648	1653	1658	1663	1668	1673	1678	1683	1688	1693	1698	1703	1708	1713	1718	1723	1728	1733	1738	1743	1748	1753	1758	1763	1768	1773	1778	1783	1788	1793	1798	1803	1808	1813	1818	1823	1828	1833	1838	1843	1848	1853	1858	1863	1868	1873	1878	1883	1888	1893	1898	1903	1908	1913	1918	1923	1928	1933	1938	1943	1948	1953	1958	1963	1968	1973	1978	1983	1988	1993	1998	2003	2008	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063	2068	2073	2078	2083	2088	2093	2098	2103	2108	2113	2118	2123	2128	2133	2138	2143	2148	2153	2158	2163	2168	2173	2178	2183	2188	2193	2198	2203	2208	2213	2218	2223	2228	2233	2238	2243	2248	2253	2258	2263	2268	2273	2278	2283	2288	2293	2298	2303	2308	2313	2318	2323	2328	2333	2338	2343	2348	2353	2358	2363	2368	2373	2378	2383	2388	2393	2398	2403	2408	2413	2418	2423	2428	2433	2438	2443	2448	2453	2458	2463	2468	2473	2478	2483	2488	2493	2498	2503	2508	2513	2518	2523	2528	2533	2538	2543	2548	2553	2558	2563	2568	2573	2578	2583	2588	2593	2598	2603	2608	2613	2618	2623	2628	2633	2638	2643	2648	2653	2658	2663	2668	2673	2678	2683	2688	2693	2698	2703	2708	2713	2718	2723	2728	2733	2738	2743	2748	2753	2758	2763	2768	2773	2778	2783	2788	2793	2798	2803	2808	2813	2818	2823	2828	2833	2838	2843	2848	2853	2858	2863	2868	2873	2878	2883	2888	2893	2898	2903	2908	2913	2918	2923	2928	2933	2938	2943	2948	2953	2958	2963	2968	2973	2978	2983	2988	2993	2998	3003	3008	3013	3018	3023	3028	3033	3038	3043	3048	3053	3058	3063	3068	3073	3078	3083	3088	3093	3098	3103	3108	3113	3118	3123	3128	3133	3138	3143	3148	3153	3158	3163	3168	3173	3178	3183	3188	3193	3198	3203	3208	3213	3218	3223	3228	3233	3238	3243	3248	3253	3258	3263	3268	3273	3278	3283	3288	3293	3298	3303	3308	3313	3318	3323	3328	3333	3338	3343	3348	3353	3358	3363	3368	3373	3378	3383	3388	3393	3398	3403	3408	3413	3418	3423	3428	3433	3438	3443	3448	3453	3458	3463	3468	3473	3478	3483	3488	3493	3498	3503	3508	3513	3518	3523	3528	3533	3538	3543	3548	3553	3558	3563	3568	3573	3578	3583	3588	3593	3598	3603	3608	3613	3618	3623	3628	3633	3638	3643	3648	3653	3658	3663	3668	3673	3678	3683	3688	3693	3698	3703	3708	3713	3718	3723	3728	3733	3738	3743	3748	3753	3758	3763	3768	3773	3778	3783	3788	3793	3798	3803	3808	3813	3818	3823	3828	3833	3838	3843	3848	3853	3858	3863	3868	3873	3878	3883	3888	3893	3898	3903	3908	3913	3918	3923	3928	3933	3938	3943	3948	3953	3958	3963	3968	3973	3978	3983	3988	3993	3998	4003	4008	4013	4018	4023	4028	4033	4038	4043	4048	4053	4058	4063	4068	4073	4078	4083	4088	4093	4098	4103	4108	4113	4118	4123	4128	4133	4138	4143	4148	4153	4158	4163	4168	4173	4178	4183	4188	4193	4198	4203	4208	4213	4218	4223	4228	4233	4238	4243	4248	4253	4258	4263	4268	4273	4278	4283	4288	4293	4298	4303	4308	4313	4318	4323	4328	4333	4338	4343	4348	4353	4358	4363	4368	4373	4378	4383	4388	4393	4398	4403	4408	4413	4418	4423	4428	4433	4438	4443	4448	4453	4458	4463	4468	4473	4478	4483	4488	4493	4498	4503	4508	4513	4518	4523	4528	4533	4538	4543	4548	4553	4558	4563	4568	4573	4578	4583	4588	4593	4598	4603	4608	4613	4618	4623	4628	4633	4638	4643	4648	4653	4658	4663	4668	4673	4678	4683	4688	4693	4698	4703	4708	4713	4718	4723	4728	4733	4738	4743	4748	4753	4758	4763	4768	4773	4778	4783	4788	4793	4798	4803	4808	4813	4818	4823	4828	4833	4838	4843	4848	4853	4858	4863	4868	4873	4878	4883	4888	4893	4898	4903	4908	4913	4918	4923	4928	4933	4938	4943	4948	4953	4958	4963	4968	4973	4978	4983	4988	4993	4998	5003	5008	5013	5018	5023	5028	5033	5038	5043	5048	5053	5058	5063	5068	5073	5078	5083	5088	5093	5098	5103	5108	5113	5118	5123	5128	5133	5138	5143	5148	5153	5158	5163	5168	5173	5178	5183	5188	5193	5198	5203	5208	5213	5218	5223	5228	5233	5238	5243	5248	5253	5258	52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CLASSIFICATION OF PATENTS

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17	: 3.136.209	81	: 3.138.992	121	: 3.129.642	391	: 3.155.012	128	: 3.136.230	53	: 3.122.071	13	: 3.132.572	96	: 3.126.235	34	: 3.142.565
18	: 3.137.199	82	: 3.140.340	122	: 3.129.642	392	: 3.155.012	129	: 3.136.230	54	: 3.122.071	14	: 3.132.572	97	: 3.126.235	35	: 3.142.565
19	: 3.137.199	83	: 3.140.340	123	: 3.129.642	393	: 3.155.012	130	: 3.136.230	55	: 3.122.071	15	: 3.132.572	98	: 3.126.235	36	: 3.142.565
20	: 3.137.199	84	: 3.140.340	124	: 3.129.642	394	: 3.155.012	131	: 3.136.230	56	: 3.122.071	16	: 3.132.572	99	: 3.126.235	37	: 3.142.565
21	: 3.137.199	85	: 3.140.340	125	: 3.129.642	395	: 3.155.012	132	: 3.136.230	57	: 3.122.071	17	: 3.132.572	100	: 3.126.235	38	: 3.142.565
22	: 3.137.199	86	: 3.140.340	126	: 3.129.642	396	: 3.155.012	133	: 3.136.230	58	: 3.122.071	18	: 3.132.572	101	: 3.126.235	39	: 3.142.565
23	: 3.137.199	87	: 3.140.340	127	: 3.129.642	397	: 3.155.012	134	: 3.136.230	59	: 3.122.071	19	: 3.132.572	102	: 3.126.235	40	: 3.142.565
24	: 3.137.199	88	: 3.140.340	128	: 3.129.642	398	: 3.155.012	135	: 3.136.230	60	: 3.122.071	20	: 3.132.572	103	: 3.126.235	41	: 3.142.565
25	: 3.137.199	89	: 3.140.340	129	: 3.129.642	399	: 3.155.012	136	: 3.136.230	61	: 3.122.071	21	: 3.132.572	104	: 3.126.235	42	: 3.142.565
26	: 3.137.199	90	: 3.140.340	130	: 3.129.642	400	: 3.155.012	137	: 3.136.230	62	: 3.122.071	22	: 3.132.572	105	: 3.126.235	43	: 3.142.565
27	: 3.137.199	91	: 3.140.340	131	: 3.129.642	401	: 3.155.012	138	: 3.136.230	63	: 3.122.071	23	: 3.132.572	106	: 3.126.235	44	: 3.142.565
28	: 3.137.199	92	: 3.140.340	132	: 3.129.642	402	: 3.155.012	139	: 3.136.230	64	: 3.122.071	24	: 3.132.572	107	: 3.126.235	45	: 3.142.565
29	: 3.137.199	93	: 3.140.340	133	: 3.129.642	403	: 3.155.012	140	: 3.136.230	65	: 3.122.071	25	: 3.132.572	108	: 3.126.235	46	: 3.142.565
30	: 3.137.199	94	: 3.140.340	134	: 3.129.642	404	: 3.155.012	141	: 3.136.230	66	: 3.122.071	26	: 3.132.572	109	: 3.126.235	47	: 3.142.565
31	: 3.137.199	95	: 3.140.340	135	: 3.129.642	405	: 3.155.012	142	: 3.136.230	67	: 3.122.071	27	: 3.132.572	110	: 3.126.235	48	: 3.142.565
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	3:119,355		3:152,561		3:139,847	124	3:151,587	265	3:135,230		3:160,132	5	3:124,091
	3:127,854	118	3:146,732		3:149,847	127	3:154,039		3:154,036	120	3:125,056	5	3:126,855
	3:142,268	119	3:149,845		3:145,671	129	3:149,590		3:158,118		3:127,862	5	3:130,702
	3:120,198		3:151,580		3:155,058	130	3:146,742	410	3:139,052		3:133,517	5	3:131,661
		120	3:141,425		3:161,163		3:160,132	412	3:155,062		3:149,598	5	3:132,611
		125	3:125,971	4	3:122,110	132	3:133,516	421	3:126,853	121	3:142,280	5	3:137,262
		129	3:124,022		3:126,847	134	3:157,140	427	3:134,348		3:146,748	5	3:137,263
			3:128,727		3:156,620	139	3:125,972		3:151,588		3:146,749	5	3:139,053
			3:146,737	6	3:136,274	140	3:121,412			124	3:124,093	5	3:141,433
			3:125,042		3:143,090		3:134,347				3:126,854	5	3:111,435
			3:146,738	7	3:130,694		3:137,255				3:140,684	5	3:143,098
			3:123,023		3:139,848	143	3:142,277	1	3:160,129		3:150,624	5	3:146,745
			3:123,024		3:146,740	151	3:140,680	7	3:130,698	126	3:119,363	5	3:146,746
			3:123,829		3:148,642		3:146,743		3:143,988		3:151,592	5	3:148,652
			3:151,029		3:151,031	152	3:151,033	32	3:132,615		3:163,146	5	3:149,606
			3:120,201		3:157,139	153	3:155,060		3:135,231	129	3:159,128	5	3:149,607
			3:133,088		3:162,152	154	3:130,696	33	3:118,406	131	3:139,053	5	3:150,625
			3:162,150	1	3:118,402	158	3:118,404		3:122,114		3:151,596	5	3:151,597
			3:145,669		3:142,273		3:126,849		3:139,053		3:162,161	5	3:151,598
			3:149,587	1	3:143,984		3:150,697		3:145,676	133	3:162,161	5	3:156,209
			3:163,132	3	3:148,643		3:131,658		3:148,647	134	3:132,617	5	3:156,210
			3:157,136	8	3:140,675		3:132,614	34	3:154,037		3:158,121	5	3:157,141
			3:160,121	10	3:139,049		3:137,256	35	3:122,115		3		

Class 114—Cont.		235	3,144,848	57	3,159,135	142	3,117,552	37	3,135,621	93,43	3,130,066	161	3,131,088
			3,147,732		3,123,040		3,124,098		3,155,531	94	3,160,518		3,134,688
			3,150,630	60	3,123,041	169	3,125,987	38	3,120,449	95	3,121,020		3,138,481
			3,152,571		3,132,624	171	3,139,855		3,132,965		3,139,353		3,154,431
			3,162,170		3,135,235	173	3,119,370		3,140,959	98	3,149,000	200	3,124,478
					3,147,731		3,124,100		3,160,514		3,157,531	201	3,128,203
					3,127,867		3,127,868	41	3,154,427	100	Re. 25,661		3,137,590
					3,136,290		3,127,869	43	3,118,783		3,125,459		3,145,120
					3,139,063		3,158,132	44	3,125,460		3,130,070		3,148,083
					3,144,850			45	3,117,886		3,152,005		3,160,520
					3,117,550				3,131,081	102	3,118,784	205	3,124,479
					3,119,367				3,125,062		3,149,994	211	Re. 25,651
					3,125,062				3,125,063		3,124,477		3,118,785
					3,126,743				3,138,494		3,146,122		3,118,786
					3,131,666				3,163,554		3,155,535		3,118,787
					3,133,039				3,119,708		3,155,536		3,122,448
					3,134,044				3,120,450		3,158,497		3,142,585
					3,135,210				3,126,296		3,158,498		3,148,084
					3,137,148				3,140,959	104	3,117,021		3,154,432
					3,138,431				3,142,445		3,131,081	212	3,117,022
					3,140,959				3,124,476		3,121,683		3,118,788
					3,142,445				3,130,067		3,135,535		3,132,046
					3,144,850				3,138,494		3,163,555		3,134,689
					3,146,125				3,142,581		3,120,451		3,141,791
					3,148,083				3,139,352		3,127,283		3,146,125
					3,150,630				3,152,006		3,142,584		3,148,085
					3,152,006				3,155,532		3,146,123		3,157,534
					3,154,431				3,157,532		3,152,006		3,158,502
					3,156,504				3,159,135	107,1	3,117,887		3,158,503
					3,158,502				3,160,518		3,119,713	213	3,118,789
					3,160,518				3,161,534		3,122,449		3,122,449
					3,162,170				3,162,170		3,158,499		3,134,690
					3,163,554				3,163,555		3,152,008		3,148,086
					3,164,999				3,164,999		3,152,009		3,153,060
					3,166,444				3,166,444		3,152,010		3,158,504
					3,167,889				3,167,889		3,152,011		3,160,521
					3,169,334				3,169,334		3,152,012		3,161,534
					3,170,779				3,170,779		3,152,013		3,162,170
					3,172,224				3,172,224		3,152,014		3,163,555
					3,173,669				3,173,669		3,152,015		3,164,999
					3,175,114				3,175,114		3,152,016		3,166,444
					3,176,559				3,176,559		3,152,017		3,167,889
					3,178,004				3,178,004		3,152,018		3,169,334
					3,179,449				3,179,449		3,152,019		3,170,779
					3,180,894				3,180,894		3,152,020		3,171,224
					3,182,339				3,182,339		3,152,021		3,172,224
					3,183,784				3,183,784		3,152,022		3,173,669
					3,185,229				3,185,229		3,152,023		3,174,114
					3,186,674				3,186,674		3,152,024		3,175,114
					3,188,119				3,188,119		3,152,025		3,176,559
					3,189,564				3,189,564		3,152,026		3,177,224
					3,191,009				3,191,009		3,152,027		3,178,004
					3,192,454				3,192,454		3,152,028		3,179,449
					3,193,899				3,193,899		3,152,029		3,180,894
					3,195,344				3,195,344		3,152,030		3,181,339
					3,196,789				3,196,789		3,152,031		3,182,339
					3,198,234				3,198,234		3,152,032		3,183,784
					3,199,679				3,199,679		3,152,033		3,184,119
					3,201,124				3,201,124		3,152,034		3,185,229
					3,202,569				3,202,569		3,152,035		3,186,674
					3,204,014				3,204,014		3,152,036		3,187,119
					3,205,459				3,205,459		3,152,037		3,188,119
					3,206,904				3,206,904		3,152,038		3,189,564
					3,208,349				3,208,349		3,152,039		3,190,894
					3,209,794				3,209,794		3,152,040		3,191,339
					3,211,239				3,211,239		3,152,041		3,192,454
					3,212,684				3,212,684		3,152,042		3,193,899
					3,214,129				3,214,129		3,152,043		3,194,339
					3,215,574				3,215,574		3,152,044		3,195,344
					3,217,019				3,217,019		3,152,045		3,196,789
					3,218,464				3,218,464		3,152,046		3,197,224
					3,219,909				3,219,909		3,152,047		3,198,234
					3,221,354				3,221,354		3,152,048		3,199,679
					3,222,799				3,222,799		3,152,049		3,200,124
					3,224,244				3,224,244		3,152,050		3,201,124
					3,225,689				3,225,689		3,152,051		3,202,569
					3,227,134				3,227,134		3,152,052		3,203,569
					3,228,579				3,228,579		3,152,053		3,204,014
					3,230,024				3,230,024		3,152,054		3,205,459
					3,231,469				3,231,469		3,152,055		3,206,904
					3,232,914				3,232,914		3,152,056		3,208,349
					3,234,359				3,234,359		3,152,057		3,209,794
					3,235,804				3,235,804		3,152,058		3,211,239
					3,237,249				3,237,249		3,152,059		3,212,684
					3,238,694				3,238,694		3,152,060		3,214,129
					3,240,139				3,240,139		3,152,061		3,215,574
					3,241,584				3,241,584		3,152,062		3,217,019
					3,243,029				3,243,029		3,152,063		3,218,464
					3,244,474				3,244,474		3,152,064		3,219,909
					3,245,919				3,245,919		3,152,065		3,221,354
					3,247,364				3,247,364		3,152,066		3,222,799
					3,248,809				3,248,809		3,152,067		3,224,244
					3,250,254				3,250,254		3,152,068		3,225,689
					3,251,699				3,251,699		3,152,069		3,227,134
					3,253,144				3,253,144		3,152,070		3,228,579
					3,254,589				3,254,589		3,152,071		3,229,994
					3,256,034				3,256,034		3,152,072		3,231,469
					3,257,479				3,257,479		3,152,073		3,232,914
					3,258,924				3,258,924		3,152,074		3,234,359
					3,260,369				3,260,369		3,152,075		3,235,804
					3,261,814				3,261,814		3,152,076		3,237,249
					3,263,259				3,263,259		3,152,077		3,238,694
					3,264,704				3,264,704		3,152,078		3,240,139
					3,266,149				3,266,149		3,152,079		3,241,584
					3,267,594				3,267,594		3,152,080		3,243,029
					3,269,039				3,269,039		3,152,081		3,244,474
					3,270,484				3,270,484		3,152,082		3,245,919
					3,271,929				3,271,929		3,152,083		3,247,364
					3,273,374				3,273,374		3,152,084		3,248,809
					3,274,819				3,274,819		3,152,085		3,250,254
					3,276,264				3,276,264		3,152,086		3,251,699
					3,277,709				3,277,709		3,152,087		3,253,144
					3,279,154				3,279,154		3,152,088		3,254,589
					3,280,599				3,280,599		3,152,089		3,256,034
					3,282,044				3,282,044		3,152,090		3,257,479
					3,283,489				3,283,489		3,152,091		3,258,924
					3,284,934				3,284,934		3,152,092		3,260,369
					3,286,379				3,286,379		3,152,		

Class 123- (cont)

Class 123 - Con.

11 : 3,143,106

200 : 3,127,890

205 : 3,123,067

336 : 3,126,002

261 : 3,162,194

399 : 3,133,539

3,155,666

3,151,612

05 : 3,123,068

3,132,647

263 : 3,124,134

3,140,716

140 : 3,140,702

3,142,291

3,143,104

3,146,776

3,149,619

3,157,173

3,159,152

13 : 3,127,886

15 : 3,127,887

3,128,755

3,133,533

3,162,187

16 : 3,120,223

21 : 3,155,087

3,158,146

148 : 3,139,081

3,139,876

3,144,012

3,146,771

3,149,620

3,156,227

3,158,143

23 : 3,120,842

3,140,704

3,161,190

30 : 3,125,088

35 : 3,141,453

39 : 3,154,064

40 : 3,131,683

169 : 3,155,085

179 : 3,116,729

3,119,382

3,124,118

3,125,997

3,127,883

3,131,682

3,135,375

3,136,307

3,139,877

19 : 3,118,436

3,143,105

3,144,860

3,145,700

3,149,621

3,150,653

3,151,605

3,156,229

3,159,154

182 : 3,146,772

185 : 3,127,884

3,134,376

187.5 : 3,144,861

3,147,747

3,162,185

3,145,701

3,144,013

3,150,654

3,151,601

195 : 3,135,254

198 : 3,145,702

3,148,671

3,158,144

3,159,155

Class 124

1 : 3,117,567

2 : 3,141,450

3 : 3,136,308

3,142,292

3,119,383

11 : 3,119,384

3,127,885

3,142,293

12 : 3,124,119

3,137,287

3,119,622

15 : 3,142,294

16 : 3,128,752

3,145,703

3,154,062

3,138,149

17 : 3,119,385

19 : 3,154,063

21 : 3,160,152

22 : 3,126,880

3,153,406

3,156,230

24 : 3,116,730

3,120,222

3,135,255

3,141,451

3,161,189

38 : 3,117,568

3,144,014

3,145,704

39 : 3,120,224

3,153,408

3,156,232

3,161,191

41 : 3,122,134

3,151,610

44 : 3,154,065

3,136,309

86 : 3,158,147

92 : 3,133,534

93 : 3,139,881

3,140,705

3,126,080

110 : 3,120,225

3,124,120

3,125,089

3,133,535

3,140,706

3,141,454

3,144,862

3,149,625

3,150,656

3,150,657

3,153,409

3,156,233

113 : 3,149,626

116 : 3,128,756

120 : 3,123,063

121 : 3,151,611

3,159,157

137 : 3,139,882

140 : 3,162,188

3,125,090

191 : 3,119,388

3,123,064

3,124,121

3,144,863

3,150,658

3,155,088

193 : 3,145,705

194 : 3,127,889

3,132,640

3,150,659

Class 125

4 : 3,132,637

5 : 3,156,231

9 : 3,148,672

3,121,423

3,122,133

3,125,087

3,128,754

3,137,288

3,139,083

3,139,878

3,141,452

204 : 3,161,192

208 : 3,159,158

226 : 3,158,148

246 : 3,167,882

258 : 3,148,676

261 : 3,144,015

262 : 3,120,226

3,145,706

265 : 3,144,016

268 : 3,132,641

270 : 3,118,437

3,129,703

3,156,234

3,162,189

271 : 3,125,091

3,145,707

3,146,774

3,161,193

3,126,775

3,151,613

1 : 3,132,642

2 : 3,137,289

3,143,107

2 : 3,160,151

288 : 3,134,377

3,131,687

297 : 3,131,688

3,118,438

343.5 : 3,126,883

3,131,684

3,140,708

3,143,108

3,144,864

3,150,660

3,153,410

3,155,089

360 : 3,124,122

3,128,758

3,138,150

3,123,065

3,151,614

3,163,159

364 : 3,151,615

3,139,084

3,131,685

3,131,686

377 : 3,122,135

390 : 3,145,708

Class 127

3 : 3,142,589

13 : 3,140,200

15 : 3,130,080

28 : 3,150,005

3,137,592

3,159,505

3,117,892

3,130,081

3,152,925

3,132,051

3,156,662

43 : 3,135,631

45 : 3,133,835

46 : 3,122,456

63 : 3,140,201

3,150,002

3,153,411

67 : 3,128,208

3,119,389

71 : 3,119,719

3,123,502

3,128,209

3,133,836

Class 128

1 : Rf. 25,508

3,124,123

3,126,884

3,137,290

3,140,709

3,158,149

3,158,150

3,160,155

2 : 3,117,569

3,118,439

3,123,066

3,133,537

3,136,310

3,139,085

3,143,109

3,147,749

3,152,587

3,155,090

3,155,091

3,158,151

3,159,159

3,163,160

05 : 3,117,570

05 : 3,118,440

05 : 3,122,136

Class 129

30 : 3,120,228

15 : 3,154,069

3,162,191

3,138,157

19 : 3,144,865

20 : 3,129,706

3,131,690

24 : 3,117,571

25 : 3,134,378

29 : 3,124,124

3,126,001

3,137,293

3,138,152

3,156,238

3,158,152

30 : 3,120,228

3,120,843

32 : 3,118,441

33 : 3,140,711

36 : 3,124,125

3,163,161

41 : 3,149,629

3,128,761

65 : 3,154,070

3,138,153

3,155,092

71 : 3,118,442

3,124,126

75 : 3,117,572

3,134,379

3,135,256

3,139,883

3,153,411

3,156,239

76 : 3,119,720

3,130,724

3,135,260

3,136,313

3,147,753

3,131,691

80 : 3,121,425

3,148,678

83 : 3,139,884

84 : 3,135,257

3,143,110

3,145,709

3,149,630

87 : 3,141,456

89 : 3,124,127

90 : 3,148,679

91 : 3,116,731

3,135,258

92 : 3,118,444

3,140,712

95 : 3,141,457

96 : 3,156,242

97 : 3,159,160

100 : 3,145,710

106 : 3,124,128

117 : 3,117,571

117 : 3,117,573

3,128,762

3,130,721

132 : 3,153,412

134 : 3,136,311

3,137,294

136 : 3,124,129

Class 130

215 : 3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

3,126,001

3,128,765

3,130,725

3,135,261

3,136,313

3,155,096

3,153,414

3,122,138

3,134,380

3,158,155

3,134,379

3,138,148

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CLASSIFICATION OF PATENTS

Class 131	9	: 3,128,778	29	: 3,126,301	199	: 3,135,275	86	: 3,147,149	68	: 3,125,108	190	: 3,162,099	
		3,139,092		3,128,210	201	: 3,128,780		3,148,089		3,129,716	192	: 3,154,091	
7	: 3,136,318	3,143,117	30	: 3,120,455		3,129,714		3,150,908		3,134,390	197	: 3,126,905	
9	: 3,162,199	33	: 3,135,269	34	: 3,163,559			3,152,013		3,141,470	202	: 3,131,709	
10	: 3,116,739	36	: 3,126,895	41	: 3,123,503	Class 135		3,152,014		3,158,165		3,134,393	
	3,119,396	37	: 3,120,016	43	: 3,124,144			3,152,015	71	: 3,159,167		3,149,640	
	3,120,849		3,157,184	46	: 3,137,306	1	: 3,116,746	3,152,016	72	: 3,139,103		3,152,604	
	3,126,099	39	: 3,122,146	56	: 3,119,399		3,119,402	3,155,547	73	: 3,123,088	203	: 3,148,694	
	3,133,545		3,139,889		3,122,148		3,122,152	3,159,506		3,140,721	204	: 3,120,239	
	3,150,668	40	: 3,123,079		3,129,711		3,123,085	3,160,527	78	: 3,117,586	205.5	: 3,119,404	
11	: 3,118,451		3,123,080	57	: 3,118,456		3,128,781	3,160,528	80	: 3,122,155	209	: 3,154,092	
15	: 3,126,010		3,144,027		3,119,400		3,137,307	3,161,546	81.5	: 3,144,037	210	: 3,120,240	
	3,128,771		3,159,162		3,119,401		3,143,121	3,163,560	.5	: 3,148,691		3,143,129	
	3,147,755		3,161,202		3,124,145		3,145,719	Re:25,647	.5	: 3,148,692	212	: 3,156,252	
17	: 3,118,452	41	: 3,123,081		3,124,146		3,146,784	3,121,648	.5	: 3,158,106	216	: 3,147,762	
	3,124,140		3,126,896		3,126,021		3,150,770	3,150,999	.5	: 3,159,168		3,157,166	
	3,125,098		3,141,464		3,129,712		3,159,165	3,152,926	.5	: 3,159,169		3,158,169	
	3,126,011		3,160,163		3,130,737	3	: 3,143,122	3,131,094	82	: 3,125,109	217	: 3,141,472	
	3,126,012	42	: 3,141,463		3,134,384	4	: 3,132,658	3,132,974		3,138,168	218	: 3,145,724	
	3,128,772	45	: 3,125,101		3,135,272		3,133,549	3,139,356		3,150,674	219	: 3,120,855	
	3,136,319		3,134,382		3,144,029		3,157,185	3,150,009		3,159,170		3,122,156	
	3,139,888	50	: 3,144,028		3,149,637		3,160,165	3,150,010	83	: 3,137,303		3,125,114	
	3,162,200	53	: 3,139,093		3,154,084	5	: 3,130,739	3,160,529	84	: 3,126,903		3,155,107	
20	: 3,138,163	54	: 3,126,017	58	: 3,122,149		3,131,704	3,162,548		3,130,740		3,158,170	
	3,138,164		3,126,018		3,122,150		3,131,705	3,129,118	85	: 3,121,440		3,159,171	
21	: 3,127,899		3,126,019		3,125,105		3,133,550	3,134,698		3,126,026		3,162,210	
	3,130,733		3,126,020		3,130,738		3,143,123	3,148,090		3,126,904	219	: 3,119,405	
	3,132,650	74.5	: 3,130,734		3,134,385		3,152,600	3,156,586		3,132,661		3,152,605	
	3,146,780	76.4	: 3,126,021		3,141,467		3,158,161	3,156,587		3,133,553	220	: 3,125,115	
29	: 3,160,160	.4	: 3,131,701		3,144,030	7.1	: 3,121,439	3,120,457		3,145,722		3,134,394	
	3,116,740	79	: 3,126,022		3,148,697	1	: 3,162,206	3,150,011		3,150,675		3,155,108	
	3,139,091		3,134,383	59	: 3,143,119	14	: 3,148,698	3,160,530		3,155,104		3,156,253	
33	: 3,155,098		3,159,163	60	: 3,123,083	16	: 3,151,621	3,160,531	86	: 3,124,147	222	: 3,144,039	
36	: 3,120,850	82	: 3,132,652		3,156,248		3,129,715	3,158,162	87	: 3,158,167	234.5	: 3,147,763	
	3,142,403	84	: 3,139,094	63	: 3,121,436		3,142,307	3,150,012	89	: 3,153,420	236	: 3,159,172	
59	: 3,152,595		3,141,465	68	: 3,132,655		3,145,720	3,152,017	92	: 3,152,602	240	: 3,133,554	
62	: 3,128,773		3,148,684	69	: 3,159,164		3,150,671	3,152,017	93	: 3,124,148	242	: 3,118,461	
66	: 3,118,453	85	: 3,130,735	72	: 3,144,872		3,156,249	3,154,435		3,129,717	243.6	: 3,126,027	
70	: 3,124,141		3,132,653		3,155,102		3,157,186	3,163,561		3,163,173	246.12	: 3,135,285	
	3,127,900	93	: 3,141,466	73	: 3,129,713	21	: 3,120,238	3,143,124	94	: 3,143,126	22	: 3,125,116	
84	: 3,125,099		3,153,418		3,143,120	25	: 3,126,901	3,156,588	98	: 3,116,748	247.11	: 3,143,130	
87	: 3,126,013	114	: 3,147,757	74	: 3,120,853		3,146,785	3,159,507		3,120,854	253	: 3,126,906	
91	: 3,128,774	116	Re:25,585		3,162,204	26	: 3,135,276	3,154,436		3,159,104		3,142,308	
94	: 3,118,454		3,137,305	76	: 3,151,620		3,160,166	3,161,547		3,154,089		3,156,254	
	3,119,397	120	: 3,133,546	93	: 3,144,031	46	: 3,149,638	3,157,183	153	: 3,117,035	99	: 3,116,749	
	3,136,320	123	: 3,148,685		3,158,160	47	: 3,158,162	3,160,167	162	: 3,150,012		3,155,109	
	3,137,302	145	: 3,120,852	94	: 3,117,582	49	: 3,157,187	3,146,132	166	: 3,146,132		3,135,279	
	3,148,683	148	: 3,145,718		3,135,273	50	: 3,133,551	3,147,151		3,153,280	262	: 3,122,157	
	3,156,246	149	: 3,148,686		3,136,323		3,157,188	3,159,508	101	: 3,123,089	268	: 3,118,462	
96	: 3,160,161	151	: 3,140,719	96	: 3,144,032		3,157,189	3,138,491		3,125,110		3,125,116	
107	: 3,118,455		3,147,758	98	: 3,132,656	52	: 3,150,672	3,162,549	175	: 3,158,168	269	: 3,121,443	
133	: 3,145,716	155	: 3,142,305	99	: 3,122,151		3,122,151	3,161,548	177	: 3,161,548		3,143,131	
135	: 3,124,142				3,126,898	Class 136		3,124,448	178	: 3,124,448	.5	: 3,124,152	
140	: 3,120,233				3,139,095			3,143,441		3,143,441	270	: 3,123,091	
	3,121,433				3,139,096	3	: 3,132,053		Class 137				
	3,131,700	1	: 3,123,654	100	: 3,120,236		3,117,032			102	: 3,125,111	271	: 3,122,158
	3,136,321		3,152,597		3,139,096	3	: 3,127,286				3,139,105	286	: 3,131,711
	3,141,462		3,163,169	102	: 3,116,743		3,127,287		1	: 3,126,902	108	: 3,138,169	
	3,144,871	2	: 3,126,023		3,120,237		3,129,116			3,128,782		3,127,905	
	3,145,717	3	: 3,121,435		3,134,386		3,130,084			3,144,035		3,149,639	
141	: 3,132,651		3,125,102	104	: 3,144,033		3,132,970			3,148,699	110	: 3,135,281	
145	: 3,126,014		3,135,270		3,163,171		3,137,593			3,154,086	112	: 3,123,090	
146	: 3,128,775		3,143,118	107	: 3,117,583		3,143,439		3	: 3,135,277		3,145,723	
149	: 3,142,304		3,147,759		3,128,779	5	: 3,129,117			3,136,325		3,151,623	
149	: 3,158,157		3,152,598		3,154,085		3,138,486		4	: 3,123,086		3,151,623	
173	: 3,163,168		3,155,101	112	: 3,133,547	6	: 3,117,033			3,163,172		3,155,105	
175	: 3,121,434		3,158,159	113	: 3,125,106		3,119,722		5	: 3,162,207		3,160,168	
	3,155,099	4	: 3,117,581		3,127,902		3,121,028		8	: 3,158,163	113	: 3,131,708	
176	: 3,117,579		3,123,082	115	: 3,152,599		3,140,962			3,161,203		3,156,250	
184	: 3,128,776		3,131,702	120	: 3,118,457		3,141,795		12	: 3,144,036	114	: 3,135,282	
186	: 3,147,756		3,135,271		3,134,387		3,156,585		13	: 3,125,107		3,141,471	
	3,162,201	5	: 3,125,103	121	: 3,116,744		3,160,525			3,143,124	115	: 3,127,903	
-187	: 3,116,711		3,125,104	122	: 3,146,782		3,160,526		14	: 3,134,389		3,130,741	
	3,137,303		3,130,736	123	: 3,121,437	19	: 3,121,029		15	: 3,131,706	116.3	: 3,143,127	
189	: 3,144,023		3,136,322	129	: 3,136,324	20	: 3,161,545			3,135,278	.5	: 3,136,327	
191	: 3,158,158		3,138,165	133	: 3,131,703	26	: 3,125,088			3,148,690	117	: 3,128,783	
198	: 3,143,115		3,156,245		3,153,419	27	: 3,121,030			3,154,087		3,136,328	
	3,152,596	6	: 3,122,147	135	: 3,121,438		3,124,486			3,158,164		3,152,603	
208	: 3,117,580		3,126,897	138	: 3,126,899		3,150,008		18	: 3,139,892		3,156,251	
	3,122,145		3,146,781		3,133,548	30	: 3,137,594			3,155,103	118	: 3,134,391	
	3,125,100	8	: 3,120,235		3,139,891	34	: 3,123,504			3,134,392		3,134,392	
	3,127,901		3,138,166	142	: 3,141,468		3,146,130		31	: 3,159,166		3,135,283	
	3,144,024		3,163,170	144	: 3,118,458	51	: 3,117,893		34	: 3,139,894		3,146,787	
	3,144,025			145	: 3,138,167	65	: 3,144,356		36	: 3,136,326		3,148,693	
211	: 3,128,777				3,139,097	83	: 3,125,467			3,152,601	119	: 3,116,750	
235	: 3,116,742				3,139,098		3,132,971		38	: 3,143,125		3,119,403	
	3,129,710	2	: 3,121,026	147	: 3,135,274	81	: 3,138,487		39	: 3,132,659		3,125,112	
	3,135,268	3	: 3,138,485	148	: 3,126,900		3,138,488		41	: 3,141,469		3,130,742	
	3,137,304		3,140,203	155	: 3,118,459	86	: 3,117,034		43	: 3,123,087		3,135,284	
236	: 3,160,162		3,162,547		3,116,745		3,119,723		50	: 3,133,552		3,144,038	
238	: 3,143,116	4	: 3,150,007	166	: 3,134,388		3,120,456		54	: 3,129,102		3,144,873	
244	: 3,155,100		3,153,602		3,142,306		3,121,031			3,151,622		3,154,090	
253	: 3,124,143	7	: 3,130,083	167	: 3,139,099		3,125,468		56	: 3,122,153	121	: 3,151,625	
258	: 3,120,234												

Class 137—Con			
355.17: 3,145,725	494: 3,123,093	594: 3,128,787	625.46: 3,154,104
17: 3,161,205	3,125,118	3,128,788	47: 3,126,916
2: 3,160,173	3,143,135	3,144,877	47: 3,157,201
357: 3,140,723	3,151,627	3,156,257	48: 3,122,168
359: 3,117,588	3,159,177	3,134,402	48: 3,129,724
3,139,903	3,126,911	3,137,313	48: 3,132,669
360: 3,117,589	498: 3,122,162	12: 3,125,120	48: 3,136,337
3,118,464	3,138,174	13: 3,145,734	48: 3,139,908
3,148,698	500: 3,151,628	13: 3,150,685	48: 3,142,613
362: 3,116,751	501: 3,127,908	14: 3,154,100	5: 3,126,915
374: 3,159,174	3,159,178	16: 3,135,289	5: 3,128,792
375: 3,139,106	503: 3,131,716	16: 3,139,109	6: 3,131,722
3,143,132	504: 3,117,590	17: 3,120,245	6: 3,142,315
3,150,679	3,120,243	2: 3,151,630	6: 3,147,556
3,150,680	3,130,747	2: 3,152,610	61: 3,135,294
3,157,195	3,155,111	2: 3,153,425	62: 3,126,031
382: 3,148,699	3,156,258	2: 3,154,099	62: 3,163,180
384.6: 3,116,752	3,160,172	2: 3,155,114	63: 3,160,174
385: 3,156,256	505.13: 3,123,094	2: 3,158,178	65: 3,117,594
386: 3,119,407	13: 3,152,607	598: 3,153,426	65: 3,149,641
3,138,170	15: 3,137,312	599: 3,149,644	69: 3,119,414
389: 3,139,107	18: 3,139,900	2: 3,132,667	69: 3,140,728
391: 3,136,331	18: 3,139,901	2: 3,142,313	69: 3,152,614
392: 3,142,309	23: 3,131,717	2: 3,148,702	627: 3,152,615
393: 3,132,663	36: 3,120,856	601: 3,116,755	5: 3,116,758
398: 3,145,726	39: 3,133,556	3,123,097	5: 3,129,725
399: 3,126,907	41: 3,117,591	3,123,098	5: 3,147,771
3,146,788	41: 3,153,424	604: 3,124,159	5: 3,158,179
406: 3,138,171	510: 3,145,731	3,124,164	3,159,183
3,147,765	512: 3,119,410	3,145,735	3,160,179
408: 3,132,664	3,132,665	3,154,101	3,162,912
3,155,109	1: 3,118,467	605: 3,128,790	629: 3,143,143
413: 3,120,241	1: 3,131,718	606: 3,140,727	630.14: 3,136,338
3,145,727	1: 3,133,557	607: 3,129,723	14: 3,141,476
414: 3,135,287	1: 3,134,399	3,163,177	19: 3,118,471
3,144,874	1: 3,139,108	3,122,165	22: 3,147,772
3,144,875	3: 3,146,791	3,135,290	635: 3,150,688
3,145,728	5: 3,120,244	3,135,291	636.3: 3,130,750
3,145,729	514: 3,130,748	3,139,895	4: 3,155,115
3,158,173	3: 3,145,732	3,147,767	637: 3,147,767
416: 3,136,332	516.11: 3,129,721	3,148,703	2: 3,117,595
432: 3,121,444	19: 3,138,175	3,150,686	3: 3,131,723
433: 3,161,206	23: 3,123,095	3,154,102	3: 3,136,339
434: 3,142,310	23: 3,156,259	609: 3,128,791	4: 3,144,880
3,153,422	25: 3,132,666	3,135,292	800: 3,156,261
3,157,196	517: 3,142,311	610: 3,116,756	
437: 3,120,242	523: 3,154,096	3,124,160	
448: 3,139,897	525: 3,123,096	3,124,161	
454.2: 3,118,465	3,158,176	614: 3,126,032	
2: 3,122,159	1: 3,118,468	26: 3,126,032	
2: 3,150,681	3: 3,119,411	3,137,316	
4: 3,143,133	3: 3,126,029	3,146,796	
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14	: 3,145,750	325	: 3,127,920		3,126,045	18	: 3,125,475	202	: 3,140,213	408	: 3,125,481		3,140,217
19	: 3,151,652	330	: 3,116,778		3,131,746		3,134,702	203	: 3,136,675	410	: 3,117,047		3,157,555
	3,151,653		3,123,122		3,133,513		3,138,504		3,153,607	411	: 3,162,563	584	: 3,128,211
	3,157,215		3,143,155		3,151,657	19	: 3,119,726	204	: 3,123,510	414	: 3,125,482		
	3,160,187		3,149,658		3,154,130	20	: 3,125,475	210	: 3,142,599	415	: 3,156,601		
21	: 3,131,488		3,157,218		3,159,198	21	: 3,155,556	211	: 3,132,982		3,160,545		
	3,142,325	339	: 3,161,219		3,162,232	24	: 3,125,476	212	: 3,146,143	416	: 3,134,079	1.1	: 3,139,133
	3,144,895	341	: 3,126,936	25	: 3,118,487	48	: 3,121,038		3,154,453		3,138,510	1.7	: 3,123,121
	3,145,751		3,129,743		3,134,422		3,125,028	213	: 3,142,600		3,144,374	1.7	: 3,130,777
	3,145,752		3,160,191	28	: 3,153,437	49	: 3,127,297	215	: 3,124,497		3,160,546	1.7	: 3,142,333
22	: 3,118,479	342	: 3,145,754	32	: 3,122,194		3,133,846		3,138,508	417	: 3,140,216	1.7	: 3,158,194
	3,133,578	353	: 3,128,815		3,126,046		3,159,513	217	: 3,117,902	421	: 3,152,942	2	: 3,149,666
	3,146,187		3,155,135		3,131,747	51	: 3,144,369	220	: 3,134,980	423	: 3,124,499	2	: 3,156,286
23	: 3,149,654	354	: 3,118,482		3,131,748	53	: 3,117,900	222	: 3,155,560		3,147,171	2.2	: 3,157,555
25	: 3,116,775		3,133,583		3,141,493	55	: 3,128,214	224	: 3,148,103	425	: 3,130,104	13	: 3,117,611
	3,139,134		3,139,135		3,143,158	57	: 3,130,899	228	: 3,130,102		3,141,806		3,136,333
34	: 3,126,934	355	: 3,160,192		3,141,896	62.2	: 3,137,600	229	: 3,150,024	427	: 3,132,986		3,152,633
35	: 3,149,655	356	: 3,130,769		3,149,659	2	: 3,147,165	230	: 3,131,106	431	: 3,138,511		3,162,231
36	: 3,156,281		3,161,220		3,149,660	64	: 3,127,292	231	: 3,157,546	432	: 3,125,483		
37	: 3,120,254		3,133,584	34	: 3,144,070	66	: 3,160,540	234	: 3,146,144	433	: 3,160,547		
	3,163,196	361	: 3,118,483	35	: 3,119,434	67	: 3,128,215	240	: 3,121,605	435	: 3,142,604		
41.7	: 3,121,453		3,120,492		3,125,151	69	: 3,133,847		3,137,605	436	: 3,157,552	1	: 3,146,818
	3,123,120		3,131,744		3,125,152		3,160,542	242	: 3,161,554	438	: 3,118,803		3,159,222
7	: 3,140,738	362	: 3,142,327	38	: 3,124,192	71	: 3,121,649	243	: 3,159,516	441	: 3,123,512	5	: 3,126,939
71	: 3,117,610	363	: 3,117,611	39	: 3,129,745	72	: 3,127,293	244	: 3,136,676		3,127,298	5	: 3,130,777
72	: 3,128,813	367	: 3,133,585	40	: 3,118,488		3,155,587	245	: 3,161,555		3,150,026	5	: 3,143,151
72	: 3,162,228		3,133,586		3,141,494		3,158,518	250	: 3,159,517	443	: 3,117,048	5	: 3,154,121
73	: 3,117,611		3,133,587		3,141,495	73	: 3,131,104	251	: 3,144,372		3,139,366	4	: 3,119,434
73	: 3,124,189		3,160,194		3,145,757		3,145,127	252	: 3,157,548		3,154,455		3,120,863
73	: 3,125,146	370	: 3,143,156		3,146,818		3,146,181	253	: 3,157,549	444	: 3,146,150		3,131,742
73	: 3,127,919		3,162,230		3,148,721		3,150,022	256	: 3,135,641		3,159,522		3,138,510
73	: 3,130,765	397	: 3,123,123		3,156,287		3,150,023	257	: 3,141,804	446	: 3,131,107		3,143,151
73	: 3,133,579	400	: 3,150,704	46	: 3,147,792		3,158,519	264	: 3,147,166	447	: 3,140,970	7	: 3,118,481
73	: 3,133,580	401	: 3,145,755	48	: 3,116,780	78	: 3,123,398		3,147,167	448	: 3,131,108		3,122,466
73	: 3,137,336	410	: 3,118,485		3,117,615	79	: 3,118,800		3,137,606		3,138,512		3,123,121
73	: 3,152,628		3,148,485		3,126,938		3,159,514	267	: 3,143,453		3,139,367		3,159,222
73	: 3,160,188		3,143,157		3,127,921	82	: 3,131,105	268	: 3,140,969		3,138,516	5	: 3,163,195
73	: 3,160,189	426	: 3,150,705	50	: 3,146,819	88	: 3,118,801		3,159,518	462	: 3,161,557		3,160,547
73	: 3,163,197	427	: 3,121,455	54	: 3,116,781	89	: 3,132,979	270	: 3,159,519	467	: 3,138,513	11	: 3,135,151
74	: 3,131,743		3,134,418		3,144,071		3,137,602	272	: 3,123,511	471	: 3,157,555		3,139,369
75	: 3,116,776		3,134,419		3,145,758		3,144,370		3,146,145	475	: 3,117,904		3,153,151
75	: 3,118,480		3,157,219		3,146,820	91	: 3,140,967		3,146,146		3,139,368		3,163,196
75	: 3,126,038	429	: 3,134,420		3,147,793		3,146,142	273	: 3,126,307		3,147,172	13.6	: 3,147,172
75	: 3,126,039		3,142,328		3,159,199		3,152,629		3,157,546	483	: 3,152,943	27.4	: 3,129,745
75	: 3,135,309	430	: 3,154,128	64	: 3,127,922	93	: 3,122,465		3,142,601	493	: 3,134,707	4	: 3,148,105
75	: 3,136,350				3,145,759	94	: 3,138,505		3,117,045		3,142,605	4	: 3,155,151
75	: 3,138,187		Class 153		3,145,760		3,155,856	278	: 3,152,030	496	: 3,149,014	4	: 3,161,557
75	: 3,141,489				3,160,195	95	: 3,124,496		3,155,561	498	: 3,140,971	28	: 3,118,804
75	: 3,145,753	1	: 3,118,486	5	: 3,152,629	96	: 3,156,673		3,161,556		3,122,944		3,122,944
75	: 3,156,282		3,126,043	65	: 3,120,258	98	: 3,135,639	281	: 3,137,607		3,162,564		3,124,499
75	: 3,163,198		3,126,044		3,161,224	108	: 3,156,597	282	: 3,133,848	499	: 3,143,454		3,126,939
69	: 3,124,190		3,135,310	67	: 3,139,136		3,163,570	287	: 3,132,962		3,159,521		3,132,962
	3,126,935		3,155,136		3,144,072	123	: 3,142,597	290	: 3,147,168	502	: 3,121,654		3,136,678
	3,138,188		3,155,137		3,148,722	126	: 3,143,449	300	: 3,125,479		3,136,678		3,143,151
Class 152			3,155,138		3,128,821	71	: 3,130						

CLASSIFICATION OF PATENTS

30.3	: 3,126,942	32	: 3,127,300	348	: 3,155,150	139	: 3,146,155	135	: 3,146,156	402	: 3,118,808	82	: 3,152,637
3	: 3,128,822		3,139,370		3,159,207	140	: 3,158,528		3,149,023	415	: 3,142,613	83	: 3,129,574
3	: 3,143,163	47	: 3,118,805	349	: 3,116,784	143	: 3,118,806	136	: 3,151,016				3,163,209
3	: 3,156,290		3,131,110	354	: 3,146,826	144	: 3,126,312	141	: 3,151,017			86	: 3,125,499
3	: 3,158,193		3,147,174		3,146,827	146	: 3,117,053	145	: 3,127,307				3,147,790
3	: 3,162,235	49	: 3,129,132		3,129,752		3,138,515		3,142,612				3,151,669
4	: 3,121,456		3,145,130	363	: 3,131,755		3,152,035		3,150,033	5	: 3,137,340		3,158,198
4	: 3,123,128		3,152,947	371	: 3,127,926	151	: 3,131,113	146	: 3,121,658			89	: 3,129,755
4	: 3,131,750			382	: 3,125,156		3,160,548		3,157,566				3,135,319
4	: 3,131,751			383	: 3,138,197		3,120,465		3,160,552				3,144,905
4	: 3,132,684			390	: 3,148,726	153	: 3,145,462	151	: 3,146,682	1	: 3,118,495	90	: 3,116,787
4	: 3,144,074			394	: 3,143,165	156	: 3,144,376	152	: 3,160,683				3,120,867
4	: 3,151,658					158	: 3,121,656	155	: 3,141,814			95	: 3,123,132
4	: 3,156,291						3,151,015		3,144,379			101	: 3,161,233
4	: 3,157,221					159	: 3,121,657		3,148,108	2	: 3,122,199	105	: 3,138,199
42.1	: 3,145,761	23	: 3,146,824		3,149,016	160	: 3,117,054		3,150,034	6	: 3,126,945		3,154,139
4	: 3,124,194	24	: 3,140,742	2	: 3,137,609	161	: 3,143,457		3,153,610			106	: 3,154,140
46.5	: 3,129,747		3,144,899	4	: 3,152,948		3,147,177	157	: 3,133,856			109	: 3,126,055
5	: 3,132,685	26	: 3,158,195	6	: 3,125,484		3,149,020	161	: 3,151,018	7	: 3,125,157	110	: 3,132,690
53	: 3,153,439		3,163,204		3,127,301		3,150,032	162	: 3,128,222			111	: 3,139,926
71	: 3,152,634	27	: 3,155,146	7	: 3,124,501		3,158,529	163	: 3,159,528			119	: 3,156,297
76	: 3,129,748	32	: 3,151,662	8	: Re. 25,525		3,160,549	164	: 3,119,731			120	: 3,116,788
	3,137,338	34	: 3,128,823		3,131,111	162	: 3,123,515		3,120,466				3,138,200
	3,144,075	39	: 3,138,195	14	: 3,134,708		3,134,709		3,129,133			121	: 3,149,669
77	: 3,127,924	40	: 3,126,048	16	: 3,123,514		3,137,612		3,141,815			122	: 3,124,197
86	: 3,130,774		3,126,049		3,127,302	164	: 3,139,372		3,144,380	8	: 3,155,153		3,151,670
88	: 3,119,438		3,126,050		3,132,988		3,157,561		3,146,157	9	: 3,116,785		3,151,671
91	: 3,134,423		3,126,051	19	: 3,157,557	165	: 3,132,065		3,146,158			129	: 3,137,343
	3,147,796		3,148,724	22	: 3,133,851		3,135,645	165	: 3,122,488			132	: 3,117,622
99	: 3,119,439		3,156,293		3,147,175	168	: Re. 25,564	168	: 3,130,117			133	: 3,154,141
	3,120,260		3,161,229		3,154,457		3,145,133		3,159,529			134	: 3,132,691
	3,133,588	41	: 3,123,129		3,157,558	169	: 3,125,485	174	: 3,119,732				3,149,667
	3,134,424	58	: 3,121,458	24	: 3,126,310		3,154,463	175	: 3,130,118	10	: 3,159,210		3,150,714
	3,134,425	72	: 3,151,664		3,131,112		3,156,605		3,132,066	11	: 3,130,778		3,156,298
	3,135,315	81	: 3,134,426		3,140,719	170	: 3,117,055		3,151,019	12	: 3,131,756	135	: 3,125,160
	3,136,354	84	: 3,126,943		3,144,375		3,117,056	180	: 3,139,373			143	: 3,151,672
	3,142,331		3,133,589		3,159,557		3,155,567	181	: 3,128,223			145	: 3,134,430
	3,155,142		3,151,663		3,163,573		3,157,562		3,129,134			146	: 3,130,779
	3,161,227	87	: 3,136,356		3,163,574	171	: 3,131,114		3,132,989	17	: 3,135,317	147	: 3,116,789
	3,162,236	89	: 3,139,923	25	: 3,130,109	173	: 3,135,646		3,149,024			148	: Re. 25,619
	3,162,237	90	: 3,126,052	27	: 3,158,524	175	: 3,128,221	184	: 3,146,159	19	: 3,150,713		3,148,728
	3,162,238		3,126,944	30	: 3,137,610		3,156,606	190	: 3,131,117	21	: 3,155,156	151	: 3,135,320
104	: 3,121,457	107	: 3,161,230		3,146,153	176	: 3,117,906		3,141,816	22	: 3,116,786	154	: 3,135,321
	3,126,047	113	: 3,149,664		3,161,559		3,121,040		3,151,020			155	: 3,120,868
	3,154,133		3,160,198	31	: 3,141,808		3,156,607	197	: 3,161,563				3,151,673
109	: 3,118,493	130	: 3,160,199	34	: 3,157,559	179	: 3,138,516	199	: 3,137,613			157	: 3,118,497
	3,126,941	132	: 3,161,231	36	: 3,128,220	182	: 3,124,502		3,140,222				3,129,756
	3,152,635	135	: 3,145,766		3,135,642	184	: 3,160,550		3,140,974			158	: 3,126,056
	3,154,134	161	: 3,148,725		3,145,131	186	: Re. 25,625		3,150,035	25	: 3,132,690		3,131,758
112	: 3,162,239	168	: 3,123,130		3,149,017	189	: 3,133,853	205	: 3,150,036	26	: 3,122,201		3,135,322
113	: 3,120,261		3,129,750		3,154,458		3,136,680	206	: 3,122,469				3,151,674
	3,144,076		3,134,427	37	: 3,139,371	190	: 3,136,681		3,124,504			159	: 3,125,161
	3,155,143		3,157,223		3,146,154		3,138,517		3,149,025	27	: 3,143,167		3,139,927
114	: 3,129,749		3,159,204	39	: 3,127,303	191	: 3,131,115	208	: 3,149,026	29	: 3,127,930		3,144,080
115	: 3,156,292	170	: 3,141,497		3,142,609	195	: 3,140,221		3,149,027			160	: 3,134,431
	3,117,619	172	: 3,130,775	79	: 3,147,176	196	: 3,118,807		3,150,037			161	: 3,134,432
	3,143,164		3,134,428	42	: 3,130,110	204	: 3,157,563	214	: 3,122,470				3,155,158
	3,150,710	173	: 3,156,294	43	: 3,149,018	208	: 3,160,551	216	: 3,123,518	30	: 3,144,078	162	: 3,144,081
	3,154,132		3,158,196		3,162,566	214	: 3,149,021		3,135,650			163	: 3,116,790
116	: 3,122,197	175	: 3,156,295	46	: 3,126,311		3,152,950	223	: 3,123,519				3,117,623
	3,122,197	176	: 3,122,198	47	: 3,133,852	218	: 3,123,516	231	: 3,137,614	32	: 3,119,445		3,130,780
	3,131,752	178	: 3,125,154	48	: 3,130,111	236	: 3,135,647	232	: 3,139,374				3,138,201
	3,150,711		3,130,776	50	: 3,152,033	243	: 3,157,564	236	: 3,157,565				3,161,234
	3,151,659		3,130,777	54	: 3,142,610	249	: 3,135,648	237	: 3,130,119	35	: 3,131,757		3,163,210
117.5	: 3,119,440		3,136,357	55	: 3,150,029		3,144,377		3,135,651	36	: 3,122,202	164	: 3,147,800
5	: 3,161,228	183	: 3,131,753	56	: 3,143,455	250	: 3,161,560		3,144,381				3,153,446
119	: 3,140,741		3,131,754	58	: 3,159,524	258	: 3,131,116		3,150,038	39	: 3,125,158	166	: 3,118,499
122	: 3,154,135	188	: 3,154,136	59	: 3,148,105	261	: 3,159,526		3,158,533				3,151,675
	3,160,197	189	: 3,155,147	64	: 3,117,905	263	: 3,161,561	258	: 3,152,036				3,151,676
123	: 3,136,355		3,157,224		3,127,305	269	: 3,156,608	259	: 3,135,652			167	: 3,117,624
	3,145,762		3,160,200	66	: 3,142,611		3,142,611	260	: 3,136,684	40	: 3,117,620		3,157,229
	3,145,763	191	: 3,138,196	68	: 3,150,030		3,142,611	268	: 3,151,021			168	: 3,135,322
	3,146,823		3,146,825	72	: 3,158,525		3,158,525	273	: 3,129,135			170	: 3,119,444
	3,151,660	193	: 3,127,925	73	: 3,141,809	5	: 3,158,530		3,140,223				3,141,500
	3,155,144	206	: 3,138,474	82	: 3,149,019		3,158,531		3,140,975	42	: 3,153,441		3,153,444
	3,158,194		3,144,077	89	: 3,117,929	9	: 3,124,503	274	: 3,160,555	43	: 3,127,931	171	: 3,120,869
	3,159,203		3,151,665		3,127,306	13	: 3,130,114	277	: 3,135,653				3,159,211
124	: 3,137,339		3,160,201		3,130,112		3,147,178	284	: 3,163,575	49	: 3,148,727	178	: 3,123,133
	3,151,661	209	: 3,159,205		3,130,112	16	: 3,130,115	281	: 3,121,659	50	: 3,153,442	184	: 3,162,243
125	: 3,142,332	212	: 3,119,441	90	: 3,145,132	18	: 3,148,106	303	: 3,149,028	51	: 3,160,203	185	: 3,117,620
	3,144,898	216	: 3,163,205	91	: 3,141,810	26	: 3,154,464	305	: 3,146,160	52	: 3,131,759		3,147,801
	3,145,764		3,116,782	92	: 3,154,459	27	: 3,130,116	317	: 3,132,990	55	: 3,141,499		3,147,800
	3,153,440	230	: 3,125,155	92	: 3,140,973	29	: 3,154,465	336	: 3,117,907			186	: 3,151,677
	3,155,145	231	: 3,145,767		3,152,949		3,159,527		3,119,733				3,162,243
130	: 3,118,494	232	: 3,123,131	93	: 3,117,052	33	: 3,120,464		3,135,654	57	: 3,132,689		3,152,639
131	: 3,150,712		3,163,206		3,141,811	36	: 3,153,609	337	: 3,120,467	61	: 3,140,743		3,126,955
	3,157,222	272	: 3,142,333		3,154,460	43	: 3,145,134	338	: 3,152,037	62	: 3,161,232	1	: 3,119,444
135	: 3,138,194	327	: 3,142,334	95	: 3,155,566		3,145,135	342	: 3,119,734	67	: 3,126,948		3,126,955
			3,149,665		3,158,526	72	: 3,161,562		3,12				

Class 166 - Con.	39	: 3,126,055	120	: 3,120,269	22	: 3,134,710	42	: 3,117,057	58	: 3,140,230	65	: 3,160,562	
		: 3,126,960		: 3,136,364		: 3,135,655		: 3,127,311		: 3,141,821		: 3,161,567	
4	: 3,145,771			: 3,127,936		: 3,136,686		: 3,127,312		: 3,142,617	67	: 3,129,138	
	: 3,145,772			: 3,133,591		: 3,142,338		: 3,130,124		: 3,143,464		: 3,149,042	
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Class 169	53 : 3,130,791	5 : 3,155,169	5 : 3,163,705	5 : 3,155,733	153 : 3,134,847	230 : 3,126,971
2 : 3,119,452	58 : 3,139,938	512 : 3,155,169	12 : 3,138,652	5 : 3,162,721	1,138,660	3,138,214
3 : 3,135,330	3,144,911	522 : 3,129,773	15 : 3,127,466	5 : 3,163,709	3,138,661	233 : 3,139,147
9 : 3,129,765	63 : 3,140,214	524 : 3,131,774	16 : 3,133,144	69 : 3,120,442	3,141,062	237 : 3,163,241
15 : 3,117,629	63 : 3,117,631	544 : 3,150,721	3,133,145	3,138,655	3,155,770	246 : 3,120,283
3,142,340	3,139,939	551 : 3,124,202	3,133,145	3,138,655	3,155,770	3,127,943
17 : 3,135,331	3,151,682	556 : 3,151,685	3,143,591	3,138,655	3,155,770	3,127,943
19 : 3,139,143	115 : 3,130,792	609 : 3,152,648	3,143,593	3,138,655	3,155,770	3,127,943
20 : 3,160,212	116 : 3,116,795	623 : 3,155,170	3,156,706	3,127,469	3,155,770	3,127,943
22 : 3,135,332	136 : 3,142,341	624 : 3,137,351	3,162,716	3,141,505	3,155,770	3,127,943
26 : 3,132,695	635 : 3,128,834	640 : 3,123,153	3,163,704	3,152,128	3,155,770	3,127,943
30 : 3,153,453	640 : 3,123,153	662 : 3,118,507	16 : 3,125,628	3,128,332	3,155,770	3,127,943
31 : 3,139,934	4 : 3,136,371	691 : 3,123,154	17 : 3,129,277	3,144,506	3,155,770	3,127,943
3,159,677	5 : 3,117,632	699 : 3,128,830	18 : 3,133,594	3,135,760	3,155,770	3,127,943
39 : 3,161,236	6 : 3,118,505	707 : 3,150,722	18 : 3,138,656	3,141,822	3,155,770	3,127,943
40 : 3,130,790	7 : 3,128,830	711 : 3,139,145	3,153,115	3,147,337	3,155,770	3,127,943
Class 170	8 : 3,123,146	713 : 3,137,352	3,153,115	3,152,219	3,155,770	3,127,943
68 : 3,154,150	9 : 3,125,162	719 : 3,125,169	3,160,201	3,153,119	3,155,770	3,127,943
76 : 3,149,678	9 : 3,120,278	722 : 3,123,154	19 : 3,151,209	73 : 3,141,060	3,155,770	3,127,943
135 : 3,124,200	9 : 3,132,699	730 : 3,152,649	25 : 3,144,499	75 : 3,141,061	3,155,770	3,127,943
3,139,935	13 : 3,142,342	736 : 3,147,812	3,145,258	3,141,924	3,155,770	3,127,943
3,143,173	13 : 3,127,949	751 : 3,120,873	3,163,705	3,150,213	3,155,770	3,127,943
24 : 3,126,966	14 : 3,114,176	756 : 3,153,457	28 : 3,121,136	79 : 3,134,842	3,155,770	3,127,943
24 : 3,153,454	14 : 3,125,165	759 : 3,136,374	3,156,706	3,151,212	3,155,770	3,127,943
24 : 3,133,231	3,133,597	762 : 3,124,203	29 : 3,126,438	84 : 3,123,664	3,155,770	3,127,943
4 : 3,120,274	15 : 3,129,770	3,125,170	3,146,297	3,124,641	3,155,770	3,127,943
4 : 3,129,767	3,130,793	3,125,170	3,154,629	3,126,443	3,155,770	3,127,943
4 : 3,139,936	3,139,940	3,125,170	3,154,630	3,138,656	3,155,770	3,127,943
4 : 3,143,174	3,141,507	3,125,170	3,156,707	3,144,507	3,155,770	3,127,943
72 : 3,132,698	3,144,084	3,125,170	3,156,707	3,145,261	3,155,770	3,127,943
73 : 3,129,768	3,155,167	3,125,170	3,156,707	3,150,213	3,155,770	3,127,943
73 : 3,146,830	16 : 3,123,147	3,125,170	3,156,707	3,151,213	3,155,770	3,127,943
73 : 3,131,770	3,126,968	3,125,170	3,156,707	3,152,219	3,155,770	3,127,943
74 : 3,155,165	3,130,793	3,125,170	3,156,707	3,153,119	3,155,770	3,127,943
74 : 3,161,237	18 : 3,156,308	3,125,170	3,156,707	73 : 3,141,060	3,155,770	3,127,943
75 : 3,145,770	21 : 3,146,831	3,125,170	3,156,707	75 : 3,141,061	3,155,770	3,127,943
143 : 3,131,771	3,148,737	3,125,170	3,156,707	3,141,924	3,155,770	3,127,943
151 : 3,126,061	3,148,735	3,125,170	3,156,707	3,150,213	3,155,770	3,127,943
151 : 3,131,772	25 : 3,129,771	3,125,170	3,156,707	79 : 3,134,842	3,155,770	3,127,943
159 : 3,119,453	26 : 3,123,148	3,125,170	3,156,707	84 : 3,123,664	3,155,770	3,127,943
3,123,143	38 : 3,130,208	3,125,170	3,156,707	3,124,642	3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,125,170	3,156,707		3,155,770	3,127,943
		3,12				

Class 175 - Con.		30	: 3,119,045	72	: 3,147,192	157	: 3,159,226
			: 3,151,033	73	: 3,140,983	162	: 3,155,183
			: 3,153,619	75	: 3,124,515	163	: 3,155,184
374	: 3,126,067		: 3,157,579		: 3,145,151		: 3,159,227
	: 3,130,801		: 3,142,625	76	: 3,129,140	164	: 3,142,349
	: 3,137,355	32	: 3,158,544	77	: 3,128,235	173	: 3,161,244
375	: 3,158,214		: 3,163,582		: 3,145,152	178	: 3,150,730
378	: 3,126,973		: 3,119,744		: 3,147,193		: 3,158,218
379	: 3,145,788	33	: 3,140,981		: 3,147,194	181	: 3,128,838
382	: 3,152,654	35	: 3,147,188		: 3,150,056	196	: 3,154,161
386	: 3,145,784		: 3,121,045		: 3,152,963	198	: 3,160,219
389	: 3,163,243	36	: 3,123,532		: 3,158,548	202	: 3,116,802
391	: 3,159,224		: 3,124,513	78	: 3,133,000	208	: 3,123,165
393	: 3,131,779		: 3,139,384		: 3,133,867		: 3,145,794
394	: 3,117,637		: 3,152,960		: 3,137,637		: 3,145,795
397	: 3,118,511		: 3,154,472		: 3,137,638	210	: 3,133,606
398	: 3,158,215		: 3,158,545		: 3,142,627	211	: 3,123,166
	: 3,163,244		: 3,162,578		: 3,150,057	225	: 3,144,451
401	: 3,128,833		: 3,162,579		: 3,158,549	230	: 3,162,259
402	: 3,158,216		: 3,154,473	79	: 3,118,819	234	: 3,151,693
403	: 3,162,257	37	: 3,158,546	81	: 3,152,964	235	: 3,117,641
404	: 3,123,163		: 3,159,548	83	: 3,152,965	246	: 3,135,344
	: 3,127,946		: 3,119,745		: 3,157,582		: 3,141,516
405	: 3,146,838	38	: 3,123,533	85	: 3,149,047	247	: 3,140,751
408	: 3,120,285		: 3,152,961	86	: 3,136,701		
	: 3,120,286		: 3,117,913		: 3,149,048		
	: 3,128,836	39	: 3,118,819	87	: 3,130,130		
	: 3,163,245		: 3,123,534		: 3,159,550		
409	: 3,145,790		: 3,137,634		: 3,163,585		
410	: 3,140,748		: 3,162,580				
	: 3,140,749	40	: 3,132,997				
	: 3,145,791		: 3,134,722				
	: 3,163,246		: 3,138,536				
412	: 3,132,708		: 3,152,049				
	: 3,139,946		: 3,156,625				
413	: 3,139,149		: 3,161,570				
	: 3,143,177		: 3,163,583				
417	: 3,149,686	41	: 3,123,535				
418	: 3,155,180		: 3,125,760				
			: 3,163,584				
		12	: 3,130,129				
			: 3,146,172				
		43	: 3,128,234				
			: 3,132,998				
			: 3,137,635				
		44	: 3,132,076				
		47	: 3,136,700				
		50	: 3,119,746				
		51	: 3,126,322				
			: 3,153,620				
		52	: 3,121,046				
		53	: 3,149,046				
			: 3,150,051				
			: 3,151,034				
		54	: 3,121,066				
			: 3,132,999				
			: 3,144,393				
			: 3,145,149				
			: 3,150,052				
			: 3,150,053				
			: 3,156,626				
			: 3,161,571				
		58	: 3,124,514				
			: 3,140,982				
			: 3,151,035				
			: 3,151,036				
			: 3,159,549				
		59	: 3,127,323				
			: 3,127,324				
			: 3,150,054				
			: 3,152,962				
			: 3,161,572				
			: 3,162,581				
		61	: 3,150,055				
		62	: 3,120,471				
			: 3,127,325				
			: 3,141,828				
			: 3,147,189				
		64	: 3,154,474				
		67	: 3,138,537				
			: 3,138,538				
			: 3,142,626				
			: 3,147,190				
			: 3,151,037				
		68	: 3,131,129				
			: 3,132,077				
			: 3,137,636				
			: 3,144,830				
			: 3,144,394				
			: 3,147,191				
			: 3,157,580				
		69	: 3,117,914				
			: 3,121,047				
			: 3,129,141				
			: 3,129,142				
			: 3,158,547				
		70	: 3,126,323				
			: 3,157,581				
		71	: 3,119,747				
			: 3,135,665				
			: 3,145,150				
			: 3,146,173				

[illegible]

18	: 3,150,236	100.2	: 3,137,772	180	: 3,163,723	69	: 3,157,240	24	: 3,152,659	6	: 3,159,241	6	: 3,160,229
	: 3,151,219		: 3,139,489		: 3,122,613		: 3,149,689		: 3,157,240		: 3,141,521		: 3,162,269
	: 3,154,643		: 3,140,359		: 3,160,717		: 3,150,377	25	: 3,159,150	12	: 3,124,213	7	: 3,119,463
	: 3,155,775		: 3,140,360	185	: 3,148,249		: 3,155,187	27	: 3,125,180	15	: 3,155,190		: 3,121,475
	: 3,156,777		: 3,140,361	187	: 3,123,680		: 3,160,222		: 3,144,092	16	: 3,156,317		: 3,127,954
	: 3,156,778		: 3,140,362	189	: 3,124,664		: 3,161,253		: 3,149,692	22	: 3,146,852		: 3,129,787
	: 3,156,779		: 3,141,069			71	: 3,157,241	30	: 3,139,151	24	: 3,129,785		: 3,139,952
	: 3,157,746		: 3,143,603	Class 180		73	: 3,118,515	31	: 3,122,214	33.6	: 3,125,183		: 3,144,096
	: 3,159,714		: 3,144,520				: 3,123,171		: 3,122,215	36	: 3,130,813		: 3,163,258
	: 3,159,715		: 3,144,521	1	: 3,117,642		: 3,123,172		: 3,125,181		: 3,139,949	11	: 3,138,222
	: 3,159,716		: 3,145,267		: 3,128,839		: 3,147,815		: 3,129,782		: 3,158,223		: 3,153,464
	: 3,160,712		: 3,145,268		: 3,142,350		: 3,149,690		: 3,129,783	41	: 3,150,740	13	: 3,144,097
	: 3,160,713		: 3,146,316	5	: 3,136,378		: 3,152,242		: 3,131,783	46	: 3,146,853	15	: 3,116,810
	: 3,160,714		: 3,146,317		: 3,140,752		: 3,146,840		: 3,132,712		: 3,158,224		: 3,153,355
	: 3,163,719		: 3,146,318		: 3,146,840		: 3,146,843		: 3,135,348	57	: 3,135,351		: 3,148,747
22	: 3,127,480		: 3,147,347		: 3,148,743		: 3,117,649		: 3,135,349	63	: 3,132,718		: 3,155,192
	: 3,129,293		: 3,148,248	6.3	: 3,138,218		: 3,128,840		: 3,145,801		: 3,145,801	17	: 3,116,811
	: 3,156,780		: 3,149,207		: 3,156,313		: 3,134,454		: 3,136,383	77	: 3,136,386	18	: 3,127,955
26	: 3,153,122		: 3,152,225		: 3,161,245		: 3,137,361		: 3,138,220	82	: 3,120,878	27	: 3,122,214
27	: 3,122,612		: 3,152,226		: 3,123,167		: 3,146,844		: 3,140,754	85	: 3,117,651		: 3,139,156
	: 3,142,728		: 3,152,227		: 3,130,803		: 3,146,845		: 3,142,353	87	: 3,158,225	29	: 3,130,810
	: 3,143,601		: 3,155,778		: 3,158,219		: 3,150,738		: 3,143,182	91	: 3,149,695		: 3,145,804
	: 3,151,220		: 3,156,785	6.6	: 3,154,162		: 3,152,657		: 3,143,183	92	: 3,149,696		: 3,129,788
54	: 3,132,210		: 3,156,786		: 3,131,781		: 3,157,243		: 3,146,848		: 3,159,242		: 3,131,786
	: 3,157,747		: 3,157,748	7	: 3,117,643		: 3,158,221		: 3,150,739	93	: 3,150,742		: 3,135,356
32	: 3,155,776		: 3,157,749		: 3,117,644	79.1	: 3,132,710		: 3,151,698	95	: 3,143,186		: 3,143,188
38	: 3,128,348		: 3,158,696		: 3,117,645		: 3,121,468		: 3,152,660	97	: 3,123,178		: 3,149,698
	: 3,130,272		: 3,159,501		: 3,117,646		: 3,123,174		: 3,159,234	106	: 3,127,953		: 3,160,230
40	: 3,130,273		: 3,161,729		: 3,118,513		: 3,130,806		: 3,159,234		: 3,130,814	65	: 3,132,719
81	: Re: 25,507		: 3,161,730		: 3,124,209		: 3,134,455		: 3,169,251		: 3,136,384	88	: 3,147,821
	: 3,124,657		: 3,161,730		: 3,124,209		: 3,134,455		: 3,130,811		: 3,139,154	91	: 3,120,879
	: 3,126,452		: 3,163,720		: 3,127,949		: 3,147,816		: 3,132,713		: 3,139,155	102	: 3,146,856
	: 3,130,274		: 3,163,721		: 3,130,804		: 3,148,744		: 3,152,661		: 3,142,355	105	: 3,128,844
	: 3,132,211		: 3,118,977		: 3,134,452		: 3,151,696		: 3,153,462		: 3,153,462		: 3,144,096
	: 3,136,864		: 3,135,837		: 3,139,947		: 3,151,697		: 3,153,463	112	: 3,130,815		: 3,144,096
	: 3,141,068		: 3,138,669		: 3,140,753		: 3,153,462		: 3,154,172	114	: 3,145,802	106	: 3,141,522
	: 3,146,313		: 3,155,779		: 3,150,731		: 3,153,462		: 3,154,173	115	: 3,150,743		
	: 3,147,345		: 3,162,730		: 3,150,732		: 3,160,223		: 3,154,173	120	: 3,146,854		
	: 3,150,237		: 3,162,730		: 3,152,656		: 3,161,254		: 3,154,173	129	: 3,116,808		
84	: 3,124,658		: 3,162,730		: 3,153,461		: 3,162,262		: 3,154,173		: 3,124,212	2	: 3,136,388
	: 3,128,349		: 3,162,730		: 3,153,461		: 3,162,262		: 3,154,173		: 3,124,212	11	: 3,159,241
	: 3,131,264		: 3,117,189		: 3,159,228	82	: 3,116,805		: 3,154,173		: 3,126,978	37	: 3,148,748
	: 3,133,158		: 3,117,190		: 3,160,220		: 3,116,806		: 3,154,173		: 3,126,978		
	: 3,133,995		: 3,118,978		: 3,161,247		: 3,119,458		: 3,154,173		: 3,137,364	131	: 3,129,786
	: 3,140,356		: 3,127,481		: 3,162,260		: 3,123,175		: 3,154,173		: 3,137,364	134	: 3,121,471
	: 3,140,357		: 3,133,161	8	: 3,134,453		: 3,131,782		: 3,154,173		: 3,147,820	139	: 3,130,816
	: 3,143,602		: 3,142,729		: 3,135,345		: 3,141,517		: 3,154,173		: 3,149,693	141	: 3,161,259
	: 3,145,266		: 3,143,532		: 3,142,351		: 3,146,846		: 3,154,173		: 3,151,700	142	: 3,146,855
	: 3,146,314		: 3,146,319		: 3,145,796		: 3,147,817		: 3,154,173		: 3,159,235	148	: 3,160,228
	: 3,150,232		: 3,151,221		: 3,150,733		: 3,147,818		: 3,154,173		: 3,159,236	149	: 3,128,842
	: 3,153,773		: 3,119,903	9.2	: 3,163,219		: 3,147,819		: 3,154,173		: 3,159,238	150	: 3,159,243
	: 3,155,777		: 3,123,678	22	: 3,149,688		: 3,151,698		: 3,154,173		: 3,160,226	152	: 3,150,741
	: 3,156,781		: 3,124,663	24	: 3,157,913		: 3,154,166		: 3,154,166		: 3,160,227	153	: 3,148,746
	: 3,158,694		: 3,125,646	24	: 3,158,222		: 3,154,167		: 3,154,168		: 3,161,257	155	: 3,144,914
	: 3,159,717		: 3,140,363	5	: 3,117,647		: 3,154,168		: 3,154,168		: 3,161,258	169	: 3,120,290
	: 3,161,728		: 3,156,787	10	: 3,161,248		: 3,116,807		: 3,154,168	35	: 3,146,849	182	: 3,162,266
87	: 3,123,675	110	: 3,130,275		: 3,161,249		: 3,120,874		: 3,154,168	36	: 3,133,612	184	: 3,139,950
89	: 3,126,453		: 3,159,719	11	: 3,150,734		: 3,125,178		: 3,154,168		: 3,162,261	186	: 3,139,951
90	: 3,118,020	111	: 3,118,022		: 3,156,315		: 3,132,711		: 3,154,168		: 3,162,261	187	: 3,142,356
	: 3,118,975		: 3,118,979	14	: 3,130,805		: 3,133,610		: 3,154,168		: 3,162,261	198	: 3,128,843
	: 3,118,976		: 3,135,838	5	: 3,143,180		: 3,133,611		: 3,154,168		: 3,162,261	216	: 3,136,387
	: 3,120,582		: 3,136,867	19	: 3,135,346		: 3,133,611		: 3,154,168		: 3,162,261	221	: 3,135,352
	: 3,123,676		: 3,160,715		: 3,150,735		: 3,133,611		: 3,154,168		: 3,162,261	224	: 3,116,809
	: 3,124,659	115	: 3,156,788		: 3,150,736		: 3,133,611		: 3,154,168		: 3,162,261	229	: 3,131,784
	: 3,125,643		: 3,125,647	5	: 3,125,647		: 3,133,611		: 3,154,168		: 3,162,261		: 3,127,956
	: 3,128,350		: 3,132,215	5	: 3,132,215		: 3,133,611		: 3,154,168		: 3,162,261		: 3,135,357
	: 3,128,351		: 3,139,490		: 3,139,490		: 3,133,611		: 3,154,168		: 3,162,261		: 3,143,190
	: 3,129,294		: 3,141,070		: 3,141,070		: 3,133,611		: 3,154,168		: 3,162,261		: 3,144,097
	: 3,129,295		: 3,157,750		: 3,157,750		: 3,133,611		: 3,154,168		: 3,162,261		: 3,146,858
	: 3,132,212		: 3,160,716		: 3,160,716		: 3,133,611		: 3,154,168		: 3,162,261		: 3,160,232
	: 3,134,860		: 3,158,697	23	: 3,129,780		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,135,834	116	: 3,158,697	26	: 3,162,261		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,140,358	119	: 3,133,162	27	: 3,123,168		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,153,704	120	: 3,129,298	31	: 3,118,514		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,156,782	146	: 3,150,239		: 3,155,185		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
91	: 3,118,021		: 3,155,780	41	: 3,160,221		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
98	: 3,156,783	147	: 3,118,998	43	: 3,155,186		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
99	: 3,150,238	148	: 3,153,123		: 3,162,262		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
100	: 3,126,454	155	: 3,125,640	44	: 3,163,250		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,136,865	156	: 3,128,352		: 3,129,781		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,126,455		: 3,134,861		: 3,137,360		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,132,213	157	: 3,130,276		: 3,145,798		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,135,835		: 3,133,996		: 3,154,164		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,135,836		: 3,141,072		: 3,145,799		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,144,519		: 3,163,722		: 3,151,694		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,147,346	164	: 3,151,222	51	: 3,157,239		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,154,644	170.2	: 3,125,648		: 3,159,229		: 3,133,611		: 3,154,168		: 3,162,261		: 3,162,261
	: 3,158,695		: 3,121,774	54	: 3,147,814								

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5	3,119,465	80	3,156,324	264	3,127,959	36	3,127,962	43	3,139,164	35	3,144,111	127	3,128,239	19	3,128,867	34	3,147,844	146	3,119,488	218	3,152,685	18	3,163,725
17	3,142,359	85	3,125,594	82.2	3,126,985	85	3,126,985	44	3,130,823	38	3,150,750	37	3,117,662	131	3,135,668	139	3,134,725	158	3,147,848	220	3,123,283	22	3,157,754
18	3,122,217	86	3,126,985	87	3,160,237	88	3,121,479	48	3,158,238	41	3,117,660	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
24	3,141,525	88	3,121,479	88	3,121,479	88	3,121,479	49	3,128,856	44	3,119,480	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
29	3,117,653	89	3,125,186	89	3,125,186	89	3,125,186	51	3,123,190	45	3,118,525	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
31	3,139,953	90	3,127,958	90	3,127,958	90	3,127,958	52	3,122,225	47	3,125,202	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
32	3,119,466	91	3,132,725	91	3,132,725	91	3,132,725	53	3,126,077	48	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
33	3,156,321	92	3,141,525	92	3,141,525	92	3,141,525	54	3,126,077	49	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
36	3,132,722	93	3,142,359	93	3,142,359	93	3,142,359	55	3,126,077	50	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
38	3,120,293	94	3,142,359	94	3,142,359	94	3,142,359	56	3,126,077	51	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
52	3,119,467	95	3,142,359	95	3,142,359	95	3,142,359	57	3,126,077	52	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
59	3,122,218	96	3,142,359	96	3,142,359	96	3,142,359	58	3,126,077	53	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
65.1	3,123,182	97	3,142,359	97	3,142,359	97	3,142,359	59	3,126,077	54	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
67	3,144,919	98	3,142,359	98	3,142,359	98	3,142,359	60	3,126,077	55	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
69	3,153,466	99	3,142,359	99	3,142,359	99	3,142,359	61	3,126,077	56	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
70	3,137,367	100	3,142,359	100	3,142,359	100	3,142,359	62	3,126,077	57	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
72	3,121,477	101	3,142,359	101	3,142,359	101	3,142,359	63	3,126,077	58	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
73	3,119,468	102	3,142,359	102	3,142,359	102	3,142,359	64	3,126,077	59	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
74	3,123,183	103	3,142,359	103	3,142,359	103	3,142,359	65	3,126,077	60	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
75	3,124,127	104	3,142,359	104	3,142,359	104	3,142,359	66	3,126,077	61	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
76	3,129,790	105	3,142,359	105	3,142,359	105	3,142,359	67	3,126,077	62	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
77	3,132,724	106	3,142,359	106	3,142,359	106	3,142,359	68	3,126,077	63	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
78	3,133,614	107	3,142,359	107	3,142,359	107	3,142,359	69	3,126,077	64	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
79	3,134,459	108	3,142,359	108	3,142,359	108	3,142,359	70	3,126,077	65	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
80	3,135,359	109	3,142,359	109	3,142,359	109	3,142,359	71	3,126,077	66	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
81	3,136,360	110	3,142,359	110	3,142,359	110	3,142,359	72	3,126,077	67	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
82	3,137,361	111	3,142,359	111	3,142,359	111	3,142,359	73	3,126,077	68	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
83	3,138,362	112	3,142,359	112	3,142,359	112	3,142,359	74	3,126,077	69	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
84	3,139,363	113	3,142,359	113	3,142,359	113	3,142,359	75	3,126,077	70	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
85	3,140,364	114	3,142,359	114	3,142,359	114	3,142,359	76	3,126,077	71	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
86	3,141,365	115	3,142,359	115	3,142,359	115	3,142,359	77	3,126,077	72	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
87	3,142,366	116	3,142,359	116	3,142,359	116	3,142,359	78	3,126,077	73	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
88	3,143,367	117	3,142,359	117	3,142,359	117	3,142,359	79	3,126,077	74	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
89	3,144,368	118	3,142,359	118	3,142,359	118	3,142,359	80	3,126,077	75	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
90	3,145,369	119	3,142,359	119	3,142,359	119	3,142,359	81	3,126,077	76	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
91	3,146,370	120	3,142,359	120	3,142,359	120	3,142,359	82	3,126,077	77	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
92	3,147,371	121	3,142,359	121	3,142,359	121	3,142,359	83	3,126,077	78	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
93	3,148,372	122	3,142,359	122	3,142,359	122	3,142,359	84	3,126,077	79	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
94	3,149,373	123	3,142,359	123	3,142,359	123	3,142,359	85	3,126,077	80	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
95	3,150,374	124	3,142,359	124	3,142,359	124	3,142,359	86	3,126,077	81	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
96	3,151,375	125	3,142,359	125	3,142,359	125	3,142,359	87	3,126,077	82	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
97	3,152,376	126	3,142,359	126	3,142,359	126	3,142,359	88	3,126,077	83	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
98	3,153,377	127	3,142,359	127	3,142,359	127	3,142,359	89	3,126,077	84	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
99	3,154,378	128	3,142,359	128	3,142,359	128	3,142,359	90	3,126,077	85	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
100	3,155,379	129	3,142,359	129	3,142,359	129	3,142,359	91	3,126,077	86	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
101	3,156,380	130	3,142,359	130	3,142,359	130	3,142,359	92	3,126,077	87	3,129,797	43	3,116,819	139	3,134,725	158	3,147,848	158	3,147,848	220	3,123,283	22	3,157,754
102	3,157,381	131	3,142,359	131	3,142,359	131	3,142,359																

Class 200—Con.		82	3,118,986	93	3,161,744	122	3,131,274	147	3,147,358	167	3,157,771	129	3,148,128
			3,120,591	97	3,135,847		3,138,684		3,154,657		3,160,731	141	3,123,540
			3,123,690		3,139,495		3,138,685		3,155,801		3,163,739	160	3,123,541
51.08: 3,154,646			3,125,649	98	3,127,487		3,140,370		3,158,722	168	3,118,039		3,146,177
09: 3,117,193			3,136,872		3,144,532		3,141,081	148	Re: 25.631		3,119,916		3,158,556
09: 3,138,675			3,138,676		3,150,244		3,143,616		3,118,995		3,126,326		3,158,557
09: 3,144,527			3,143,612	102	3,118,989		3,143,617		3,118,996		3,138,689	173	3,142,381
09: 3,149,211			3,154,651		3,121,776		3,147,354		3,129,309		3,143,627		3,160,571
09: 3,155,788			3,119,910		3,125,652		3,148,256		3,129,310		3,146,330		3,163,587
09: 3,159,725		83	3,121,145		3,145,278		3,152,234		3,133,166		3,163,740	176	3,160,572
14: 3,143,609			3,122,617	104	3,118,033		3,152,235		3,133,176		3,163,741	187	3,147,201
52			3,128,354		3,129,304		3,154,654		3,134,875		3,134,879	205	3,138,546
56			3,157,755		3,130,281		3,155,796		3,134,876	169	3,134,879	206	3,150,064
60			3,160,722		3,133,171		3,156,802		3,137,777		3,158,726	215	3,140,987
61.04: 3,163,729			3,133,997		3,141,939	123	3,144,534		3,141,942		3,134,880	234	3,143,482
05: 3,127,485			3,135,844		3,142,735		3,146,326		3,153,131	170	3,153,131		3,159,554
06: 3,123,687			3,140,369		3,145,279	125	3,161,748		3,158,723		3,153,715	236	3,136,707
06: 3,143,610			3,141,077		3,148,255	127	3,152,236		3,154,662		3,149,056		3,161,574
08: 3,117,194			3,143,613		3,153,711	131	3,119,913		3,160,726		3,121,777		3,160,573
08: 3,158,705			3,144,531		3,155,793		3,145,282		3,160,727	172	3,121,778	241	3,162,587
18: 3,120,587			3,149,213		3,156,799		3,147,355		3,163,737		3,134,881	248	3,162,588
2			3,148,253		3,154,652	105	3,122,618	132	3,120,593	150	3,118,997		
21: 3,158,706			3,157,763		3,127,488	106	3,127,489		3,128,360		3,137,780		
22: 3,158,706			3,158,708		3,156,800		3,123,696		3,132,226		3,141,947		
25: 3,117,195			3,160,722		3,134,001		3,134,001		3,140,371		3,142,744		
34: 3,120,588			3,160,723		3,162,740		3,153,713		3,141,083		3,146,330	1	3,129,148
41: 3,130,280			3,161,741	111	3,121,150		3,157,766		3,143,624		3,150,248		3,131,133
41: 3,145,274			3,162,737		3,130,284	133	3,142,738		3,157,769		3,155,800		3,134,728
41: 3,145,275		84	3,134,866		3,139,496		3,159,730		3,160,728		3,155,808		3,136,708
42: 3,118,983			3,141,938		3,153,712	135	3,140,371	151	3,128,361		3,156,806		3,141,835
42: 3,127,486			3,145,277	112	3,128,358		3,148,257	152	3,122,621				3,147,201
43: 3,118,984			3,153,709		3,133,998		3,155,797		3,141,084				3,156,630
43: 3,133,167			3,163,731		3,141,940	136.5	3,149,214		3,142,739				3,162,587
43: 3,159,728		85	3,135,845		3,142,736	137	3,117,205		3,161,750	1	3,133,869		3,125,499
45: 3,117,196		86.5	3,117,200		3,144,533		3,123,697	153	3,120,595	7	3,130,132	5	3,143,481
45: 3,132,220		87	3,118,031		3,155,794		3,141,002		3,121,777	11	3,120,474	2	3,122,488
45: 3,144,528			3,117,201	113	3,117,203		3,134,863		3,134,872	14	3,117,064		3,123,488
45: 3,156,794			3,117,202		3,127,489		3,143,618		3,136,875		3,136,705		3,123,544
45: 3,157,757			3,118,032		3,131,260		3,155,798		3,141,943	15	3,140,985	8	3,158,555
46: 3,129,300			3,118,988		3,131,271		3,158,717		3,144,538	22	3,146,175	13	3,151,043
46: 3,141,935			3,119,911		3,131,272		3,162,742		3,148,261	26	3,117,198	14	3,131,131
47: 3,159,729			3,121,146		3,131,273	138	3,130,285		3,149,215		3,140,241	15	3,130,135
52: 3,161,737			3,121,147		3,133,174		3,139,500		3,150,217		3,140,242		3,139,388
52: 3,161,738			3,123,691		3,141,000		3,140,372		3,153,129		3,151,040		3,143,480
52: 3,161,739			3,124,670		3,143,611		3,143,619		3,154,659	31	3,130,133		3,159,555
53: 3,132,221			3,124,671		3,153,125		3,148,258		3,155,802	33	3,121,050	16	3,156,630
53: 3,141,936			3,125,650	5	3,145,280		3,151,229		3,155,803		3,151,041		3,163,586
56: 3,154,647			3,128,355	5	3,161,740		3,155,799		3,158,724		3,162,583	17	3,152,050
58: 3,141,937			3,129,302	5	3,162,741		3,157,768		3,159,732	39.5	3,133,870	18	3,127,333
58: 3,163,730			3,130,282	114	3,118,990		3,162,743		3,160,729	5	3,134,726		3,127,333
6			3,133,172		3,118,991	139	Re: 25.522	157	3,117,206	5	3,147,358		3,147,201
62: 3,145,276			3,133,173		3,118,992		3,118,993		3,131,277	5	3,152,051	20	3,132,018
62: 3,151,224			3,134,867		3,123,692		3,119,914		3,132,227	5	3,152,068	27	3,132,018
64: 3,158,707			3,134,868		3,129,305		3,121,151		3,141,944	5	3,155,597	28	3,123,545
68: 3,133,168			3,134,869		3,134,872		3,131,275		3,142,741	5	3,155,598	29	3,129,149
7			3,134,870		3,138,681		3,135,849		3,142,742	40	3,124,519	32	3,138,547
7			3,135,846		3,152,231		3,139,501	159	3,122,622		3,136,706	34	3,135,636
7			3,136,873		3,153,126		3,143,620		3,134,001		3,139,391	35	3,140,242
86: 3,120,589			3,138,677	115	3,153,127		3,144,535		3,160,725		3,140,243	37	3,129,149
86: 3,122,616			3,138,678		3,153,128		3,145,276	142	3,118,994		3,149,055	38	3,133,133
86: 3,162,734			3,138,679	5	3,135,848		3,138,686	160	3,142,743		3,151,043		3,148,259
63			3,150,243	116	3,117,204		3,155,800		3,153,130		3,151,044		3,152,052
67			3,117,197		3,118,034	141	3,118,036		3,137,778	164	3,137,778		3,152,052
			3,117,198		3,119,912		3,123,698		3,140,375		3,156,628		3,154,646
			3,118,029		3,120,592		3,126,464		3,141,946		3,158,554		3,156,630
			3,120,590		3,126,325		3,127,490	165	3,119,915		3,159,553	39	Re: 25.525
			3,123,688		3,117,349		3,128,355		3,138,688	42	3,122,488	41	3,152,052
			3,126,461		3,147,350		3,129,307	166	3,118,037		3,125,496		3,152,052
			3,133,169		3,151,225		3,129,308		3,118,998		3,132,078		3,157,757
			3,133,170		3,153,126		3,131,276		3,125,654		3,144,396	43	3,119,910
			3,135,841		3,153,127		3,136,874		3,126,466		3,151,045		3,130,130
			3,139,493		3,153,128		3,137,779		3,127,491	45	3,122,489		3,141,935
			3,141,075		3,153,129		3,139,502		3,127,492	46	3,122,490		3,141,936
			3,144,529		3,154,653		3,145,281		3,129,311		3,140,244		3,152,053
			3,153,708		3,155,790		3,147,351		3,133,177		3,143,481		3,156,630
			3,154,648		3,155,791		3,147,352		3,134,878		3,151,046	46	3,149,056
			3,157,758		3,155,792		3,147,353		3,140,376		3,151,047		3,149,056
			3,157,759		3,156,797		3,152,232		3,143,626		3,151,047		3,151,047
			3,157,760		3,157,764		3,155,795		3,143,628		3,152,052		3,151,047
			3,158,701		3,157,765		3,158,709		3,144,327	51	3,129,145	47	3,123,545
74			3,111,076		3,158,710		3,158,715		3,146,328		3,129,146		3,150,064
76			3,144,530		3,158,711		3,158,716		3,147,359		3,147,199	49	3,122,618
77			3,117,199		3,158,712		3,161,749		3,152,237		3,147,200		3,130,130
			3,126,462		3,158,713		3,163,741		3,163,743		3,121,051		3,133,133
80			3,129,301		3,158,714		3,163,742	145	3,126,465		3,121,052		3,139,493
			3,135,842		3,160,724		3,163,743		3,143,622		3,133,004		3,140,242
			3,152,230		3,161,742	120	3,123,699		3,157,770		3,134,727		3,152,052
			3,154,649		3,161,743		3,123,699		3,158,725		3,135,669		3,160,728
			3,154,650		3,162,738		3,124,671		3,159,733		3,140,986	52	3,162,587
			3,157,761	88	3,125,651		3,125,652		3,160,730	53	3,155,600		3,163,587
			3,157,762		3,131,871		3,134,874		3,161,751	57	3,119,912		3,163,587
			3,162,733		3,156,796		3,138,682		3,163,736		3,131,132		3,163,587
81			3,123,689		3,162,739		3,138,683	146	3,132,225		3,138,670	56	3,118,989
			3,136,871	90	3,129,303		3,143,615		3,144,536	167	3,117,207		Re: 25.525
			3,161,740		3,138,680		3,152,233		3,145,283		3,118,03		

Class 208—Con.		Class 210		Class 211		Class 212		Class 213		Class 214		Class 215		Class 216		Class 217		Class 218		Class 219	
127 : 3,158,566	9	3,137,648	274 : 3,158,568	90 : 3,157,596	365 : 3,135,689	60 : 3,135,390	182 : 3,119,498	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
136 : 3,132,092	11	3,137,649	315 : 3,129,167	91 : 3,149,069	366 : 3,126,336	3,138,263	3,139,987	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
140 : 3,117,076	12	3,137,650	326 : 3,123,552	94 : 3,122,501	370 : 3,133,879	3,139,187	3,144,946	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,134,732		3,137,651	332 : 3,150,080	95 : 3,136,717	376 : 3,136,722	3,140,721	3,149,729	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,144,402		3,137,652	335 : 3,156,643	96 : 3,117,925	380 : 3,136,722	3,154,195	3,160,282	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
143 : 3,125,505	17	3,147,212	366 : 3,160,584	98 : 3,138,552	382 : 3,123,557	3,161,296	3,162,313	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
146 : 3,146,189	21	3,147,213	367 : 3,161,584	104 : 3,121,681	388 : 3,123,557	3,162,313	3,163,330	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
157 : 3,152,065	29	3,147,214	374 : 3,153,629	108 : 3,129,171	391 : 3,144,409	3,163,330	3,164,347	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
163 : 3,152,066	37	3,147,215	379 : 3,129,168	109 : 3,143,498	393 : 3,138,554	3,164,347	3,165,364	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
164 : 3,161,583	39	3,147,216	383 : 3,134,733	112 : 3,140,258	398 : 3,123,557	3,165,364	3,166,381	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
165 : 3,149,064	72	3,147,217	403 : 3,139,400	116 : 3,160,587	406 : 3,145,171	3,166,381	3,167,398	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
166 : 3,120,485		3,147,218	408 : 3,126,332	117 : 3,144,405	412 : 3,157,288	3,167,398	3,168,415	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
177 : 3,152,067		3,147,219	410 : 3,133,017	120 : 3,156,645	418 : 3,157,288	3,168,415	3,169,432	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
178 : 3,121,677		3,147,220	411 : 3,133,018	121 : 3,156,646	422 : 3,157,288	3,169,432	3,170,449	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
179 : 3,124,525		3,147,221	412 : 3,133,019	122 : 3,156,647	428 : 3,157,288	3,170,449	3,171,466	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
180 : 3,123,549		3,147,222	413 : 3,133,020	123 : 3,156,648	432 : 3,157,288	3,171,466	3,172,483	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,142,636		3,147,223	414 : 3,133,021	124 : 3,156,649	438 : 3,157,288	3,172,483	3,173,500	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
189 : 3,120,486		3,147,224	415 : 3,133,022	125 : 3,156,650	442 : 3,157,288	3,173,500	3,174,517	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
195 : 3,117,077		3,147,225	416 : 3,133,023	126 : 3,156,651	448 : 3,157,288	3,174,517	3,175,534	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
198 : 3,153,628		3,147,226	417 : 3,133,024	127 : 3,156,652	452 : 3,157,288	3,175,534	3,176,551	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
203 : 3,155,666		3,147,227	418 : 3,133,025	128 : 3,156,653	458 : 3,157,288	3,176,551	3,177,568	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
204 : 3,125,506		3,147,228	419 : 3,133,026	129 : 3,156,654	462 : 3,157,288	3,177,568	3,178,585	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,128,244		3,147,229	420 : 3,133,027	130 : 3,156,655	468 : 3,157,288	3,178,585	3,179,602	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,130,149		3,147,230	421 : 3,133,028	131 : 3,156,656	472 : 3,157,288	3,179,602	3,180,619	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,152,068		3,147,231	422 : 3,133,029	132 : 3,156,657	478 : 3,157,288	3,180,619	3,181,636	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,128,245		3,147,232	423 : 3,133,030	133 : 3,156,658	482 : 3,157,288	3,181,636	3,182,653	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,141,842		3,147,233	424 : 3,133,031	134 : 3,156,659	488 : 3,157,288	3,182,653	3,183,670	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,148,137		3,147,234	425 : 3,133,032	135 : 3,156,660	492 : 3,157,288	3,183,670	3,184,687	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,154,483		3,147,235	426 : 3,133,033	136 : 3,156,661	498 : 3,157,288	3,184,687	3,185,704	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,159,570		3,147,236	427 : 3,133,034	137 : 3,156,662	502 : 3,157,288	3,185,704	3,186,721	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
207 : 3,144,403		3,147,237	428 : 3,133,035	138 : 3,156,663	508 : 3,157,288	3,186,721	3,187,738	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
208 : 3,119,764		3,147,238	429 : 3,133,036	139 : 3,156,664	512 : 3,157,288	3,187,738	3,188,755	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
210 : 3,119,765		3,147,239	430 : 3,133,037	140 : 3,156,665	518 : 3,157,288	3,188,755	3,189,772	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,133,013		3,147,240	431 : 3,133,038	141 : 3,156,666	522 : 3,157,288	3,189,772	3,190,789	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,147,210		3,147,241	432 : 3,133,039	142 : 3,156,667	528 : 3,157,288	3,190,789	3,191,806	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,121,678		3,147,242	433 : 3,133,040	143 : 3,156,668	532 : 3,157,288	3,191,806	3,192,823	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,155,667		3,147,243	434 : 3,133,041	144 : 3,156,669	538 : 3,157,288	3,192,823	3,193,840	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
213 : 3,151,060		3,147,244	435 : 3,133,042	145 : 3,156,670	542 : 3,157,288	3,193,840	3,194,857	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
216 : 3,125,507		3,147,245	436 : 3,133,043	146 : 3,156,671	548 : 3,157,288	3,194,857	3,195,874	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,162,597		3,147,246	437 : 3,133,044	147 : 3,156,672	552 : 3,157,288	3,195,874	3,196,891	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
226 : 3,136,712		3,147,247	438 : 3,133,045	148 : 3,156,673	558 : 3,157,288	3,196,891	3,197,908	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,160,580		3,147,248	439 : 3,133,046	149 : 3,156,674	562 : 3,157,288	3,197,908	3,198,925	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,126,331		3,147,249	440 : 3,133,047	150 : 3,156,675	568 : 3,157,288	3,198,925	3,199,942	1	3,118,548	6	3,157,294	19 : 3,128,891	138 : 3,155,250	450 : 3,155,257	38 : 3,152,711	43 : 3,119,507					
3,163,593		3,147,250	441 : 3,133,048	151 : 3,156,676	572 : 3,157,288	3,199,942	3,200,959	1	3,118,548	6	3,157,29										

Class 219—Con.

38 : 3,120,600	80 : 3,162,744	131 : 3,123,705	407 : 3,155,814	9 : 3,150,796	39 : 3,139,210	65 : 3,127,052
3,126,469	3,119,005	3,125,671	409 : 3,152,244	3,153,949	3,140,793	3,128,904
3,126,470	3,139,512	3,130,295	413 : 3,145,290	3,157,306	3,149,744	3,140,796
3,133,182	3,163,742	3,133,187	422 : 3,161,756	3,160,306	3,127,049	3,152,718
3,134,008	3,162,745	3,136,884	433 : 3,152,245	3,160,307	3,128,006	3,142,413
3,130,287	3,119,006	3,137,734	435 : 3,140,388	3,144,954	3,144,954	3,160,311
3,131,281	3,130,293	3,118,051	438 : 3,141,090	3,161,317	3,160,312	3,160,312
3,132,232	3,117,216	3,118,052	441 : 3,135,860	3,142,406	3,143,242	3,143,243
3,132,232	3,127,501	3,140,385	442 : 3,144,547	3,149,741	3,143,244	3,143,244
3,132,232	3,140,381	3,142,747	444 : 3,161,757	3,129,839	3,129,839	3,129,839
3,132,232	3,148,264	3,148,266	445 : 3,143,239	3,129,839	3,129,839	3,129,839
3,132,232	3,155,809	3,153,134	446 : 3,143,239	3,129,839	3,129,839	3,129,839
3,132,232	3,157,772	3,162,751	447 : 3,143,239	3,129,839	3,129,839	3,129,839
3,132,232	3,125,668	3,163,743	448 : 3,143,239	3,129,839	3,129,839	3,129,839
3,132,232	3,119,926	3,131,287	449 : 3,143,239	3,129,839	3,129,839	3,129,839
3,132,232	3,125,663	3,135,853	450 : 3,153,139	3,129,839	3,129,839	3,129,839
3,132,232	3,130,289	3,136,879	451 : 3,160,737	3,129,839	3,129,839	3,129,839
3,132,232	3,137,781	3,141,950	452 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,131,282	3,119,007	453 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,134,009	3,132,236	454 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,139,504	3,141,951	455 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,118,045	3,118,048	456 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,127,500	3,135,854	457 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,133,183	3,138,692	458 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,145,285	3,140,382	459 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,126,471	3,118,049	460 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,135,853	3,138,693	461 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,135,853	3,146,334	462 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,131,284	3,119,927	463 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,137,782	3,119,008	464 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,146,331	3,136,880	465 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,130,291	3,162,746	466 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,132,233	3,143,634	467 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,135,851	3,134,012	468 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,146,332	3,144,543	469 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,137,781	3,136,881	470 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,153,718	3,132,237	471 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,131,285	3,155,810	472 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,132,232	3,140,383	473 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,120,601	3,118,050	474 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,122,628	3,118,051	475 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,125,664	3,132,238	476 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,125,665	3,132,239	477 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,128,364	3,136,882	478 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,134,010	3,147,361	479 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,134,011	3,148,265	480 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,134,892	3,158,732	481 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,135,852	3,158,733	482 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,138,690	3,162,748	483 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,138,691	3,162,749	484 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,140,379	3,134,883	485 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,144,540	3,139,513	486 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,144,541	3,127,502	487 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,144,542	3,131,288	488 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,145,286	3,131,289	489 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,149,218	3,134,013	490 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,149,219	3,135,855	491 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,154,664	3,136,883	492 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,156,808	3,146,335	493 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,158,728	3,146,336	494 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,752	3,149,222	495 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,753	3,151,231	496 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,754	3,152,238	497 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,755	3,153,133	498 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,756	3,154,633	499 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,757	3,155,811	500 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,758	3,156,809	501 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,759	3,157,776	502 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,760	3,158,734	503 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,761	3,159,741	504 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,762	3,160,738	505 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,763	3,161,739	506 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,764	3,162,740	507 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,765	3,163,741	508 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,766	3,164,742	509 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,767	3,165,743	510 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,768	3,166,744	511 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,769	3,167,745	512 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,770	3,168,746	513 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,771	3,169,747	514 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,772	3,170,748	515 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,773	3,171,749	516 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,774	3,172,750	517 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,775	3,173,751	518 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,776	3,174,752	519 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,777	3,175,753	520 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,778	3,176,754	521 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,779	3,177,755	522 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,780	3,178,756	523 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,781	3,179,757	524 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,782	3,180,758	525 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,783	3,181,759	526 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,784	3,182,760	527 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,785	3,183,761	528 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,786	3,184,762	529 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,787	3,185,763	530 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,788	3,186,764	531 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,789	3,187,765	532 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,790	3,188,766	533 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,791	3,189,767	534 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,792	3,190,768	535 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,793	3,191,769	536 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,794	3,192,770	537 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,795	3,193,771	538 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,796	3,194,772	539 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,797	3,195,773	540 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,798	3,196,774	541 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,799	3,197,775	542 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,800	3,198,776	543 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,801	3,199,777	544 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,802	3,200,778	545 : 3,161,758	3,129,839	3,129,839	3,129,839
3,132,232	3,161,803	3,201,779	546 : 3,161,758	3,129,839	3,129,839	3,129,839
3,1						

Class 223 - Con.		48 : 3,162,344	7 : 3,156,995	176 : 3,148,818	14 : 3,127,064	31 : 3,118,590	51 : 3,148,724
		52 : 3,143,266	9 : 3,154,233	177 : 3,148,819	3,128,934	32 : 3,131,848	52 : 3,152,749
78 : 3,133,682			10 : 3,137,426	178 : 3,136,467	3,129,867	33 : 3,137,434	53 : 3,153,506
83 : 3,126,135	Class 225		11 : 3,123,267	179 : 3,124,291	3,129,868	34 : 3,146,933	54 : 3,154,237
85 : 3,116,860			12 : 3,128,026		3,130,889	35 : 3,146,934	55 : 3,158,327
86 : 3,148,808	1 : 3,120,915	13 : 3,152,740	180 : 3,137,430		3,132,789	36 : 3,156,403	56 : 3,161,348
87 : 3,123,265	2 : 3,150,805	14 : 3,137,427		3,145,894	3,133,687	37 : 3,158,310	57 : 3,162,352
88 : 3,145,888	3 : 3,116,863	15 : 3,147,898	181 : 3,132,788		3,135,452	38 : 3,161,867	58 : 3,163,351
89 : 3,148,809	4 : 3,116,863	16 : 3,156,396	186 : 3,123,271		3,136,471	39 : 3,122,299	59 : 3,120,918
90 : 3,162,341	5 : 3,122,292	17 : 3,145,891		3,135,448	3,137,433	40 : 3,131,849	60 : 3,123,278
91 : 3,151,788	6 : 3,138,308	18 : 3,119,535	187 : 3,142,429		3,139,227	41 : 3,136,473	61 : 3,126,145
92 : 3,153,499	7 : 3,141,589	19 : 3,136,463	190 : 3,139,226		3,144,188	42 : 3,139,228	62 : 3,140,814
93 : 3,157,324	8 : 3,150,806	20 : 3,158,305	192 : 3,120,916		3,145,899	43 : 3,151,801	63 : 3,141,599
94 : 3,162,342	9 : 3,154,230	21 : 3,153,447	193 : 3,141,593		3,146,932	44 : 3,152,748	64 : 3,145,272
95 : 3,120,913	10 : 3,155,300	22 : 3,156,397	196 : 3,125,272		3,146,932	45 : 3,162,350	65 : 3,144,196
96 : 3,138,305	11 : 3,156,390	23 : 3,125,266		3,140,033	3,147,903	46 : 3,161,343	66 : 3,144,981
97 : 3,143,261	12 : 3,157,328	24 : 3,140,027		3,143,270	3,149,768	47 : 3,162,342	67 : 3,146,937
98 : 3,157,325	13 : 3,163,430	25 : 3,122,294	197 : 3,123,272		3,153,305	48 : 3,162,342	68 : 3,149,768
99 : 3,140,024	14 : 3,141,591	26 : 3,122,295	199 : 3,119,539		3,157,341	49 : 3,120,913	69 : 3,122,303
100 : 3,117,705	15 : 3,144,815	27 : 3,148,815		3,128,931	3,157,342	50 : 3,122,303	70 : 3,122,303
101 : 3,125,737	16 : 3,145,890	28 : 3,160,340	200 : 3,141,594		3,158,307	51 : 3,126,143	71 : 3,123,279
102 : 3,117,705	17 : 3,148,813	29 : 3,128,027		3,163,343	3,158,311	52 : 3,126,143	72 : 3,123,279
103 : 3,120,913	18 : 3,116,864	30 : 3,159,324	Class 229		3,159,326	53 : 3,126,143	73 : 3,123,279
104 : 3,124,284	19 : 3,123,265	31 : 3,140,028	1 : 3,122,296	15 : 3,152,744	3,161,339	54 : 3,126,146	74 : 3,123,279
105 : 3,155,296	20 : 3,132,782	32 : 3,154,234	2 : 3,123,273	16 : 3,118,585	3,163,343	55 : 3,126,146	75 : 3,123,279
106 : 3,117,707	21 : 3,136,462	33 : 3,152,742	3 : 3,123,273	17 : 3,119,545	3,163,343	56 : 3,126,146	76 : 3,123,279
107 : 3,151,789	22 : 3,137,433	34 : 3,152,742	4 : 3,123,273	18 : 3,118,585	3,163,343	57 : 3,126,146	77 : 3,123,279
108 : 3,130,882	23 : 3,137,433	35 : 3,152,742	5 : 3,123,273	19 : 3,119,545	3,163,343	58 : 3,126,146	78 : 3,123,279
109 : 3,161,332	24 : 3,137,433	36 : 3,152,742	6 : 3,123,273	20 : 3,119,545	3,163,343	59 : 3,126,146	79 : 3,123,279
Class 224			7 : 3,123,273	21 : 3,119,545	3,163,343	60 : 3,126,146	80 : 3,123,279
1 : 3,155,297	33 : 3,127,078	37 : 3,156,391	8 : 3,123,273	22 : 3,119,545	3,163,343	61 : 3,126,146	81 : 3,123,279
2 : 3,117,708	34 : 3,156,391	38 : 3,132,784	9 : 3,123,273	23 : 3,119,545	3,163,343	62 : 3,126,146	82 : 3,123,279
3 : 3,118,580	35 : 3,132,784	39 : 3,156,392	10 : 3,123,273	24 : 3,119,545	3,163,343	63 : 3,126,146	83 : 3,123,279
4 : 3,126,146	36 : 3,128,027	40 : 3,156,392	11 : 3,123,273	25 : 3,119,545	3,163,343	64 : 3,126,146	84 : 3,123,279
5 : 3,127,075	37 : 3,156,392	41 : 3,156,392	12 : 3,123,273	26 : 3,119,545	3,163,343	65 : 3,126,146	85 : 3,123,279
6 : 3,128,026	38 : 3,156,392	42 : 3,156,392	13 : 3,123,273	27 : 3,119,545	3,163,343	66 : 3,126,146	86 : 3,123,279
7 : 3,138,306	39 : 3,156,392	43 : 3,156,392	14 : 3,123,273	28 : 3,119,545	3,163,343	67 : 3,126,146	87 : 3,123,279
8 : 3,143,262	40 : 3,156,392	44 : 3,156,392	15 : 3,123,273	29 : 3,119,545	3,163,343	68 : 3,126,146	88 : 3,123,279
9 : 3,148,810	41 : 3,156,392	45 : 3,156,392	16 : 3,123,273	30 : 3,119,545	3,163,343	69 : 3,126,146	89 : 3,123,279
10 : 3,120,332	42 : 3,156,392	46 : 3,156,392	17 : 3,123,273	31 : 3,119,545	3,163,343	70 : 3,126,146	90 : 3,123,279
11 : 3,129,862	43 : 3,156,392	47 : 3,156,392	18 : 3,123,273	32 : 3,119,545	3,163,343	71 : 3,126,146	91 : 3,123,279
12 : 3,129,862	44 : 3,156,392	48 : 3,156,392	19 : 3,123,273	33 : 3,119,545	3,163,343	72 : 3,126,146	92 : 3,123,279
13 : 3,129,862	45 : 3,156,392	49 : 3,156,392	20 : 3,123,273	34 : 3,119,545	3,163,343	73 : 3,126,146	93 : 3,123,279
14 : 3,129,862	46 : 3,156,392	50 : 3,156,392	21 : 3,123,273	35 : 3,119,545	3,163,343	74 : 3,126,146	94 : 3,123,279
15 : 3,129,862	47 : 3,156,392	51 : 3,156,392	22 : 3,123,273	36 : 3,119,545	3,163,343	75 : 3,126,146	95 : 3,123,279
16 : 3,129,862	48 : 3,156,392	52 : 3,156,392	23 : 3,123,273	37 : 3,119,545	3,163,343	76 : 3,126,146	96 : 3,123,279
17 : 3,129,862	49 : 3,156,392	53 : 3,156,392	24 : 3,123,273	38 : 3,119,545	3,163,343	77 : 3,126,146	97 : 3,123,279
18 : 3,129,862	50 : 3,156,392	54 : 3,156,392	25 : 3,123,273	39 : 3,119,545	3,163,343	78 : 3,126,146	98 : 3,123,279
19 : 3,129,862	51 : 3,156,392	55 : 3,156,392	26 : 3,123,273	40 : 3,119,545	3,163,343	79 : 3,126,146	99 : 3,123,279
20 : 3,129,862	52 : 3,156,392	56 : 3,156,392	27 : 3,123,273	41 : 3,119,545	3,163,343	80 : 3,126,146	100 : 3,123,279
21 : 3,129,862	53 : 3,156,392	57 : 3,156,392	28 : 3,123,273	42 : 3,119,545	3,163,343	81 : 3,126,146	
22 : 3,129,862	54 : 3,156,392	58 : 3,156,392	29 : 3,123,273	43 : 3,119,545	3,163,343	82 : 3,126,146	
23 : 3,129,862	55 : 3,156,392	59 : 3,156,392	30 : 3,123,273	44 : 3,119,545	3,163,343	83 : 3,126,146	
24 : 3,129,862	56 : 3,156,392	60 : 3,156,392	31 : 3,123,273	45 : 3,119,545	3,163,343	84 : 3,126,146	
25 : 3,129,862	57 : 3,156,392	61 : 3,156,392	32 : 3,123,273	46 : 3,119,545	3,163,343	85 : 3,126,146	
26 : 3,129,862	58 : 3,156,392	62 : 3,156,392	33 : 3,123,273	47 : 3,119,545	3,163,343	86 : 3,126,146	
27 : 3,129,862	59 : 3,156,392	63 : 3,156,392	34 : 3,123,273	48 : 3,119,545	3,163,343	87 : 3,126,146	
28 : 3,129,862	60 : 3,156,392	64 : 3,156,392	35 : 3,123,273	49 : 3,119,545	3,163,343	88 : 3,126,146	
29 : 3,129,862	61 : 3,156,392	65 : 3,156,392	36 : 3,123,273	50 : 3,119,545	3,163,343	89 : 3,126,146	
30 : 3,129,862	62 : 3,156,392	66 : 3,156,392	37 : 3,123,273	51 : 3,119,545	3,163,343	90 : 3,126,146	
31 : 3,129,862	63 : 3,156,392	67 : 3,156,392	38 : 3,123,273	52 : 3,119,545	3,163,343	91 : 3,126,146	
32 : 3,129,862	64 : 3,156,392	68 : 3,156,392	39 : 3,123,273	53 : 3,119,545	3,163,343	92 : 3,126,146	
33 : 3,129,862	65 : 3,156,392	69 : 3,156,392	40 : 3,123,273	54 : 3,119,545	3,163,343	93 : 3,126,146	
34 : 3,129,862	66 : 3,156,392	70 : 3,156,392	41 : 3,123,273	55 : 3,119,545	3,163,343	94 : 3,126,146	
35 : 3,129,862	67 : 3,156,392	71 : 3,156,392	42 : 3,123,273	56 : 3,119,545	3,163,343	95 : 3,126,146	
36 : 3,129,862	68 : 3,156,392	72 : 3,156,392	43 : 3,123,273	57 : 3,119,545	3,163,343	96 : 3,126,146	
37 : 3,129,862	69 : 3,156,392	73 : 3,156,392	44 : 3,123,273	58 : 3,119,545	3,163,343	97 : 3,126,146	
38 : 3,129,862	70 : 3,156,392	74 : 3,156,392	45 : 3,123,273	59 : 3,119,545	3,163,343	98 : 3,126,146	
39 : 3,129,862	71 : 3,156,392	75 : 3,156,392	46 : 3,123,273	60 : 3,119,545	3,163,343	99 : 3,126,146	
40 : 3,129,862	72 : 3,156,392	76 : 3,156,392	47 : 3,123,273	61 : 3,119,545	3,163,343	100 : 3,126,146	
41 : 3,129,862	73 : 3,156,392	77 : 3,156,392	48 : 3,123,273	62 : 3,119,545	3,163,343		
42 : 3,129,862	74 : 3,156,392	78 : 3,156,392	49 : 3,123,273	63 : 3,119,545	3,163,343		
43 : 3,129,862	75 : 3,156,392	79 : 3,156,392	50 : 3,123,273	64 : 3,119,545	3,163,343		
44 : 3,129,862	76 : 3,156,392	80 : 3,156,392	51 : 3,123,273	65 : 3,119,545	3,163,343		
45 : 3,129,862	77 : 3,156,392	81 : 3,156,392	52 : 3,123,273	66 : 3,119,545	3,163,343		
46 : 3,129,862	78 : 3,156,392	82 : 3,156,392	53 : 3,123,273	67 : 3,119,545	3,163,343		
47 : 3,129,862	79 : 3,156,392	83 : 3,156,392	54 : 3,123,273	68 : 3,119,545	3,163,343		
48 : 3,129,862	80 : 3,156,392	84 : 3,156,392	55 : 3,123,273	69 : 3,119,545	3,163,343		
49 : 3,129,862	81 : 3,156,392	85 : 3,156,392	56 : 3,123,273	70 : 3,119,545	3,163,343		
50 : 3,129,862	82 : 3,156,392	86 : 3,156,392	57 : 3,123,273	71 : 3,119,545	3,163,343		
51 : 3,129,862	83 : 3,156,392	87 : 3,156,392	58 : 3,123,273	72 : 3,119,545	3,163,343		
52 : 3,129,862	84 : 3,156,392	88 : 3,156,392	59 : 3,123,273	73 : 3,119,545	3,163,343		
53 : 3,129,862	85 : 3,156,392	89 : 3,156,392	60 : 3,123,273	74 : 3,119,545	3,163,343		
54 : 3,129,862	86 : 3,156,392	90 : 3,156,392	61 : 3,123,273	75 : 3,119,545	3,163,343		
55 : 3,129,862	87 : 3,156,392	91 : 3,156,392	62 : 3,123,273	76 : 3,119,545	3,163,343		
56 : 3,129,862	88 : 3,156,392	92 : 3,156,392	63 : 3,123,273	77 : 3,119,545	3,163,343		
57 : 3,129,862	89 : 3,156,392	93 : 3,156,392	64 : 3,123,273	78 : 3,119,545	3,163,343		
58 : 3,129,862	90 : 3,156,392	94 : 3,156,392	65 : 3,123,273	79 : 3,119,545	3,163,343		
59 : 3,129,862	91 : 3,156,392	95 : 3,156,392	66 : 3,123,273	80 : 3,119,545	3,163,343		
60 : 3,129,862	92 : 3,156,392	96 : 3,156,392	67 : 3,123,273	81 : 3,119,545	3,163,343		
61 : 3,129,862	93 : 3,156,392	97 : 3,156,392	68 : 3,123,273	82 : 3,119,545	3,163,343		
62 : 3,129,862	94 : 3,156,392	98 : 3,156,392	69 : 3,123,273	83 : 3,119,545	3,163,343		
63 : 3,129,862	95 : 3,156,392	99 : 3,156,392	70 : 3,123,273	84 : 3,119,545	3,163,343		
64 : 3,129,862	96 : 3,156,392	100 : 3,156,392	71 : 3,123,273	85 : 3,119,545	3,163,343		
65 : 3,129,862	97 : 3,156,392		72 : 3,123,273	86 : 3,119,545	3,163,343		
66 : 3,129,862	98 : 3,156,392		73 : 3,123,273	87 : 3,119,545	3,163,343		
67 : 3,129,862	99 : 3,156,392		74 : 3,12				

CLASSIFICATION OF PATENTS

93	: 3,130,898	122	: 3,142,438	2	: 3,125,287	50	: 3,132,798	74	: 3,129,880	151	: 3,149,226	183	: 3,119,326
		123	: 3,146,938		3,136,480		3,158,316	76	: 3,131,859		3,150,253		3,129,326
Class 230		125	: 3,127,093	Class 232		51	: 3,125,288	78	: 3,126,151		3,151,237		3,137,790
1	: 3,128,937		3,124,301				3,133,699		3,150,824		3,154,673		3,141,967
2	: 3,119,550		3,144,202	1	: 3,118,597	54	: 3,118,598	79.5	: 3,129,880		3,154,674		3,145,297
9	: 3,150,814		3,144,203		3,148,826		3,125,289	.5	: 3,144,900		3,155,816		3,155,823
18	: 3,140,819		3,145,911	5	: 3,128,942		3,162,362	.5	: 3,147,915		3,155,817		3,159,741
30	: 3,144,982	127	: 3,145,912		3,143,285	58	: 3,117,719	84	: 3,120,923	152	: 3,127,506		3,162,756
31	: 3,119,551	128	: 3,123,284		3,161,351		3,121,531	87	: 3,123,291		3,134,016	184	: 3,142,750
38	: 3,144,198	130	: 3,134,536	16	: 3,145,917		3,125,754	88	: 3,152,756		3,137,787		3,146,346
39	: 3,153,508		3,145,913	16	: 3,145,917	60	: 3,120,341	89	: 3,125,790		3,139,522		3,153,143
40	: 3,136,477		3,146,939	17	: 3,134,538		3,130,904		3,130,905		3,145,295		3,159,742
42	: 3,150,815	132	: 3,144,983		3,144,984		3,135,462		3,162,364		3,147,371	185	: 3,117,221
44	: 3,140,040		3,150,823	24	: 3,144,985		3,136,382		3,163,358		3,148,273		3,141,968
45	: 3,117,713	133	: 3,123,285	35	: 3,143,286		3,138,324	91	: 3,119,557		3,159,738		3,151,239
	3,141,604	134	: 3,126,149		3,143,287		3,140,823		3,120,924	153	: 3,117,788		3,158,738
	3,144,199		3,119,553		3,144,986		3,142,441		3,128,041		3,137,788		3,162,755
47	: 3,147,909		3,123,286		3,163,356		3,145,923		3,130,906		3,141,961	188	: 3,127,509
	3,150,816		3,127,094	43.1	: 3,141,609		3,155,315		3,130,941		3,141,962	189	: 3,131,297
52	: 3,148,825		3,128,939	.1	: 3,145,918		3,156,411		3,140,046		3,155,818		3,147,374
	3,151,804		3,128,940	.2	: 3,155,314		3,161,353		3,141,611		3,155,819		3,155,824
	3,151,805		3,130,899	.2	: 3,162,361	.12	: 3,146,941		3,147,916		3,161,762	193	: 3,125,677
55	: 3,143,281		3,138,319	44	: 3,127,097	.13	: 3,117,720		3,152,757		3,163,748		3,127,510
	3,155,308		3,140,042	62	: 3,154,286	.13	: 3,145,924	92	: 3,119,011	154	: 3,153,142		3,130,301
	3,156,405		3,144,204	63	: 3,126,037	.15	: 3,138,325		3,120,602	155	: 3,132,245		3,141,969
56	: 3,125,282		3,147,911	65	: 3,144,987	.18	: 3,159,338		3,121,160		3,151,238		3,150,254
	3,129,878		3,154,243			.2	: 3,135,463		3,121,787	156	: 3,131,293		3,152,520
	3,143,282	138	: 3,122,408	Class 233		.25	: 3,149,779		3,125,673	157	: 3,117,720		3,157,782
	3,149,773		3,135,608	4	: 3,119,775	.47	: 3,161,354		3,127,505		3,118,055		3,157,783
	3,155,309		3,151,806		3,126,337	61	: 3,117,721		3,128,373		3,130,299	194	: 3,121,788
	3,159,330	139	: Re.25,567		3,151,073		3,122,312		3,129,322		3,138,702		3,131,298
	3,159,331		3,121,528	7	: 3,143,504		3,122,313		3,130,297		3,143,644		3,138,705
	3,162,357	140	: 3,157,550		3,148,145		3,122,314		3,130,298		3,144,549		3,139,524
58	: 3,120,338	141	: 3,121,529	11	: 3,129,174		3,122,315		3,132,243	159	: 3,120,604	195	: 3,161,766
69	: 3,120,339		3,129,875	14	: 3,148,146		3,128,039		3,133,189	160	: 3,118,056		3,162,750
	3,120,919		3,133,694	15	: 3,145,172		3,128,040		3,134,015		3,161,763		3,160,741
	3,120,920	142	: 3,116,871		3,132,100		3,128,941		3,139,521	159	: 3,120,604	195	: 3,161,766
	3,125,283	143	: 3,129,875		3,133,880		3,129,879		3,141,091	160	: 3,118,056	196	: 3,162,750
	3,134,533		3,138,280	19	: 3,135,691		3,131,858		3,141,959		3,126,475		3,162,750
	3,140,820		3,161,349		3,141,846		3,132,799		3,145,292		3,123,707	197	: 3,117,722
	3,141,605	145	: 3,118,595	20	: 3,117,928		3,132,800		3,145,293		3,126,475		3,120,605
	3,144,200		3,120,921		3,133,881		3,134,539		3,154,293		3,123,707		3,124,676
	3,145,909		3,127,095		3,145,173		3,134,540		3,151,234	164	: 3,124,676		3,128,376
	3,147,910		3,127,096		3,160,589		3,137,443		3,151,235		3,126,476		3,128,376
	3,149,774		3,130,900	21	: 3,127,342		3,139,234		3,151,236		3,141,963		3,136,888
	3,149,775		3,139,233		3,161,593		3,139,235		3,154,670		3,141,964		3,140,399
	3,150,817		3,142,439	23	: 3,126,338		3,141,610		3,154,672		3,145,296		3,145,296
	3,150,818		3,142,440	24	: 3,151,074		3,143,282		3,159,339		3,151,074		3,151,245
	3,150,819		3,151,807	26	: 3,133,882		3,139,240		3,156,814		3,156,815		3,158,739
	3,152,752		3,155,311	28	: 3,129,175		3,159,340		3,157,778		3,157,780		3,160,741
	3,155,310		3,159,336	29	: 3,145,174		3,161,355		3,159,342		3,158,736	198	: 3,159,744
	3,156,406	149	: 3,161,350		3,146,198		3,162,363		3,160,740		3,159,739	200	: 3,142,751
	3,159,332		3,162,359	39	: 3,125,516		3,162,364		3,161,761		3,160,742		3,159,340
	3,159,333	150	: 3,133,695	Class 234		.11	: 3,123,706		3,163,747		3,163,748		3,162,360
79	: 3,154,240	152	: 3,138,321			.11	: 3,124,675		3,163,747		3,163,748	201	: 3,155,822
84	: 3,149,776	158	: 3,116,872			.11	: 3,125,672	95	: 3,130,907	165	: 3,155,820		3,157,783
92	: 3,125,001		3,121,530	1	: 3,140,822		3,128,372	98	: 3,146,944	167	: 3,131,294		3,157,783
	3,129,873	160	: 3,118,596	20	: 3,127,098		3,131,291	99	: 3,141,612		Re.25,518	Class 236	
	3,129,874		3,133,696	22	: 3,145,919		3,132,241	101	: 3,128,372	168	: 3,155,821	1	: 3,120,343
95	: Re.25,555	162	: 3,133,692	30	: 3,119,555		3,132,242	103	: 3,129,236	169	: 3,159,740		3,122,313
	3,158,314	170	: 3,149,777	33	: 3,159,337		3,134,895	.5	: 3,139,236	170	: 3,146,345		3,125,292
101	: 3,117,714	172	: 3,149,778	34	: 3,144,205		3,139,520	110	: 3,129,925		3,154,676		3,125,292
	3,134,534		3,163,354	37	: 3,128,943		3,139,520	117	: 3,137,444	172	: 3,125,674		3,127,010
	3,141,606	187	: 3,130,901	45	: 3,124,302		3,141,958		3,147,918		3,148,274		3,129,880
114	: 3,119,552	188	: 3,137,439		3,135,461		3,142,791		3,151,240		3,156,816		3,138,313
	3,123,282		3,163,355		3,143,288		3,145,291	118	: 3,131,860		Re.25,621		3,140,040
	3,123,283	189	: 3,122,309	50	: 3,120,922		3,146,341	119	: 3,157,354	173	: 3,127,507		3,145,909
	3,129,938	203	: 3,146,940	54	: 3,133,697		3,146,342	130	: 3,129,882		3,163,749		3,159,340
	3,138,317	205	: 3,151,808	55	: 3,145,920		3,152,247	132	: 3,118,599		3,155,822		3,162,360
	3,154,241	206	: 3,123,287	63	: 3,130,903		3,153,721		3,119,558	175	: 3,121,161		3,149,776
	3,159,334		3,128,941	78	: 3,127,099		3,157,777		3,125,291		3,125,675		3,150,818
	3,159,335		3,131,855		3,137,441		3,160,739	137	: 3,126,152		3,125,676	9	: 3,126,151
115	: 3,157,340		3,145,914	80	: 3,122,310		3,163,746	138	: 3,152,758		3,129,324		3,154,242
116	: 3,118,593		3,147,912	96	: 3,158,315		3,143,642	139	: 3,116,875		3,131,295		3,158,313
	3,121,526		3,154,244	100	: 3,131,857		3,126,473	144	: 3,120,343		3,138,703	12	: 3,124,343
	3,129,036		3,162,360		3,138,322		3,133,188		3,122,315		3,139,237		3,131,858
	3,133,693	207	: 3,130,902	102	: 3,145,921		3,161,760		3,129,883	176	: 3,119,929		3,148,826
	3,134,535		3,140,043	103	: 3,123,289		3,121,159		3,131,861		3,135,862		3,152,750
	3,140,821		3,147,913	107	: 3,124,303		3,121,786		3,142,442		3,148,704		3,160,740
	3,150,820		3,152,753	108	: 3,117,717		3,128,371		3,149,780		3,141,965	13	: 3,123,283
	3,163,353	208	: 3,145,915	109	: 3,144,988		3,149,225		3,151,809		3,147,372		3,145,909
117	: Re.25,569	209	: 3,134,537	110	: 3,123,797		3,153,141	145	: 3,126,153		3,154,677	15	: 3,123,283
	3,117,715	210	: 3,145,916	115	: 3,119,556		3,127,504		3,147,919		3,161,765		3,128,376
	3,120,340	211	: 3,145,916		3,123,290		3,126,150		3,152,759	177	: 3,124,677		3,136,888
	3,122,307		3,156,409		3,126,150		3,136,886		3,158,317		3,137,789		3,158,313
	3,125,284	229	: 3,136,479		3,127,099	62	: 3,132,801	146	: 3,156,412		3,139,522	20	: 3,159,340
	3,127,092	230	: 3,125,285		3,127,099		3,157,353		3,158,318		3,143,645	21	: 3,122,312
	3,141,607	232	: 3,141,608		3,133,698		3,136,881		3,122,630	179	: 3,128,375		3,154,242
	3,145,910		3,147,914		3,136,881		3,166,						

CLASSIFICATION OF PATENTS

[illegible]

Class 248 - Con.		188.6	3:153,525	357	3:132,833	43.5	3:153,722	71.5	3:127,512	83.3	3:155,828	201	3:155,880	202	Re:25,581
		7	3:148,855	358	3:123,332	-5	3:154,680	-5	3:136,889	-3	3:156,822	201	3:154,680	202	3:154,680
63	3:155,351	7	3:151,830		3:129,905	-5	3:154,681	-5	3:138,709	-3	3:158,423	201	3:158,423	202	3:158,423
65	3:154,275	7	3:160,382		3:131,903	-5	3:156,818	-5	3:139,527	-3	3:158,743	201	3:158,743	202	3:158,743
68	3:129,938	189	3:134,566		3:145,012	-5	3:156,819	-5	3:140,394	-3	3:159,747	201	3:159,747	202	3:159,747
68	3:132,831	194	3:139,256		3:151,833	-5	3:156,741	-5	3:140,395	-3	3:160,751	201	3:160,751	202	3:160,751
	3:143,325	201	3:154,281		3:155,361	-5	3:160,745	-5	3:142,756	-3	3:160,752	201	3:160,752	202	3:160,752
	3:145,962		3:163,388	359	3:132,834	-5	3:161,767	-5	3:146,349	-3	3:161,771	201	3:161,771	202	3:161,771
71	3:146,982	205	3:143,327		3:155,462	-5	3:161,768	-5	3:147,378	-3	3:161,772	201	3:161,772	202	3:161,772
	3:152,377	207	3:148,856	360	3:136,323	-5	3:161,769	-5	3:149,230	-3	3:161,773	201	3:161,773	202	3:161,773
	3:162,413	208	3:129,910	361	3:129,370	-5	3:154,684	-5	3:154,684	-3	3:162,764	201	3:162,764	202	3:162,764
72	3:163,386	210	3:125,317		3:139,261	44	3:138,708	-5	3:159,744	-3	3:163,758	205	3:163,758	206	3:163,758
	3:129,915	211	3:131,900		3:140,850	46	3:129,910	-5	3:160,750	-3	3:163,759	205	3:163,759	206	3:163,759
	3:130,848	211	3:154,282		3:162,191	19.5	3:120,610	-5	3:160,750	-3	3:163,760	205	3:163,760	206	3:163,760
73	3:131,644		3:154,282	362	3:126,192		3:122,633	-5	3:160,750	-3	3:163,761	205	3:163,761	206	3:163,761
	3:132,843		3:160,383		3:117,760		3:122,633	-5	3:160,750	-3	3:163,762	205	3:163,762	206	3:163,762
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	3:136,047		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,766	205	3:163,766	206	3:163,766
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	3:138,450		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,769	205	3:163,769	206	3:163,769
	3:139,251		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,770	205	3:163,770	206	3:163,770
	3:140,052		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,771	205	3:163,771	206	3:163,771
	3:140,850		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,772	205	3:163,772	206	3:163,772
	3:141,651		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,773	205	3:163,773	206	3:163,773
	3:142,452		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,774	205	3:163,774	206	3:163,774
	3:143,253		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,775	205	3:163,775	206	3:163,775
	3:144,054		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,776	205	3:163,776	206	3:163,776
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	3:157,671		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,793	205	3:163,793	206	3:163,793
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	3:159,273		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,795	205	3:163,795	206	3:163,795
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	3:161,676		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,798	205	3:163,798	206	3:163,798
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	3:163,278		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,800	205	3:163,800	206	3:163,800
	3:164,079		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,801	205	3:163,801	206	3:163,801
	3:164,880		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,802	205	3:163,802	206	3:163,802
	3:165,681		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,803	205	3:163,803	206	3:163,803
	3:166,482		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,804	205	3:163,804	206	3:163,804
	3:167,283		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,805	205	3:163,805	206	3:163,805
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	3:168,885		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,807	205	3:163,807	206	3:163,807
	3:169,686		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,808	205	3:163,808	206	3:163,808
	3:170,487		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,809	205	3:163,809	206	3:163,809
	3:171,288		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,810	205	3:163,810	206	3:163,810
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	3:172,890		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,812	205	3:163,812	206	3:163,812
	3:173,691		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,813	205	3:163,813	206	3:163,813
	3:174,492		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,814	205	3:163,814	206	3:163,814
	3:175,293		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,815	205	3:163,815	206	3:163,815
	3:176,094		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,816	205	3:163,816	206	3:163,816
	3:176,895		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,817	205	3:163,817	206	3:163,817
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	3:178,497		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3	3:163,819	205	3:163,819	206	3:163,819
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	3:181,701		3:163,389		3:120,076		3:122,633	-5	3:160,750	-3					

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	3:134,907	197	3:125,323		3:145,175	8	3:126,343	96	3:156,654	4	3:124,539		3:163,612
	3:138,714	205	3:139,262		3:153,631	8	3:131,151			4	3:152,085	439	3:137,656
	3:153,148	206	3:144,238		3:159,577	8	3:145,177	98	3:163,606	4	3:159,584		3:147,231
	3:154,688	210	3:145,010		3:161,590	9	3:136,726	98	3:128,250	6	3:133,027	440	3:132,110
238	3:163,768	212	3:136,525		3:161,595	9	3:136,726		3:130,165	6	3:133,027	441	3:121,696
239	3:125,684	214	3:121,554	31	3:126,342	9	3:136,726		3:154,496	6	3:140,999		3:129,586
	3:143,655		3:124,334		3:130,159	9	3:146,203		3:154,496	6	3:140,999		3:129,586
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	3:153,149		3:128,078	5	3:146,201	50	3:132,104		3:161,597	6	3:152,094		3:150,107
	3:161,777		3:123,838	7	3:123,570	51.5	3:117,900	106	3:118,842	6	3:152,995		3:163,613
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Class 251			3:134,569	7	3:127,348	5	3:119,776		3:142,646	6	3:157,602		3:123,573
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	3:145,967	228	3:119,594	7	3:143,506	5	3:126,344	118	3:146,207		3:131,154	443	3:123,574
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14	3:161,399	289	3:116,907	33	3:121,687	5	3:151,079	136	3:138,557		3:139,406		3:148,154
25	3:155,365	298	3:156,446		3:133,019	5	3:151,080		3:147,224		3:152,996	452	3:137,657
29	3:125,319	306	3:122,353		3:135,693	5	3:152,080		3:147,224		3:161,602		3:159,586
30	3:135,493	309	3:118,649		3:140,997	5	3:154,491	137	3:145,178	316	3:159,585		3:118,844
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	3:159,374		3:133,723		3:150,089	52	3:124,531		3:149,078	317	3:147,227	454	3:125,534
31	3:141,647		3:142,474		3:152,991		3:127,352		3:151,084	321	3:127,354	455	3:120,494
	3:153,528	312	3:128,987		3:155,616		3:127,353	138	3:133,024	331	3:148,152		3:125,534
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35	3:150,856	315	3:146,988	2	3:117,929		3:151,081	139	3:123,566	344	3:148,154		3:131,151
43	3:120,372	322	3:158,351	2	3:155,617		3:151,082	143	3:147,224		3:150,102		3:146,211
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57	3:117,761	327	3:149,818	3	3:123,561	54	3:129,182		3:146,208	354	3:133,886		3:161,603
	3:119,592		3:160,389	4	3:118,840	6	3:117,932		3:161,598	359	3:132,108	464	3:132,111
58	3:116,905	329	3:158,352	4	3:121,688	6	3:124,533	151	3:140,260	359	3:119,779		3:152,098
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61	3:121,552		3:130,954	6	3:117,086	6	3:157,600		3:152,998	360	3:141,000	466	3:133,022
62	3:125,320		3:134,570	6	3:121,057	6	3:151,083		3:156,656	368	3:135,698		3:139,406
	3:148,859		3:134,571	6	3:123,562	56	3:117,091		3:159,581	387	3:151,087		3:143,511
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63	3:150,857		3:154,286	6	3:125,524	57	3:152,081		3:124,536		3:141,001		3:162,606
	3:151,835		3:154,288	6	3:125,525	59	3:121,061		3:124,537	392	3:127,355	470	3:152,098
64	3:116,906		3:157,383	6	3:130,160		3:129,183		3:133,885	395	3:138,558		3:159,586
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	3:137,474	349	3:145,011	6	3:149,075	1	3:143,508	161	3:140,261	412	3:121,693	477	3:145,181
69	3:137,475	351	3:151,839	6	3:149,076	3	3:119,778	170	3:163,607		3:135,699		3:155,369
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88	3:117,762	367	3:135,495	34.7	3:131,150	3	3:141,847	182	3:130,168	413	3:117,936		3:138,588
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95	3:140,072				3:127,350	3	3:142,644	184	3:141,851		3:142,646		3:161,603
100	3:146,987				3:163,601	3	3:146,204		3:152,083		3:152,083		3:143,513
120	3:163,394	8.3	3:162,601	36	3:158,574	3	3:152,092	186	3:130,169	414	3:117,935		3:143,513
124	3:120,373	5	3:123,559	39	3:129,179	3	3:155,621	187	3:142,647		3:117,937		3:145,181
129	3:140,073	5	3:125,517		3:136,725	3	3:159,579	188	3:123,567	415	3:121,694		3:146,211
133	3:152,785	5	3:127,343		3:152,079	5	3:117,092		3:156,209		3:122,512		3:152,098
134	3:160,385	5	3:127,344		3:155,618	5	3:117,093	39	3:144,143		3:147,229		3:163,613
137	3:158,350	5	3:138,555		3:155,619	5	3:117,933	189	3:137,654		3:150,104		3:161,604
139	3:120,373	5	3:146,190	40.5	3:121,689	5	3:117,934	300	3:123,568	416	3:141,853	501	3:152,098
144	3:145,968	5	3:150,085	7	3:125,526	5	3:117,935		3:125,535		3:151,088		3:135,699
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	3:129,920	55.5	3:125,518		3:126,347	5	3:129,184		3:126,349	418	3:153,633		3:148,154
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6	3:131,905	55	3:130,086	7	3:121,058	5	3:142,645		3:135,697		3:141,854		3:161,604
6	3:144,217	55.3	3:163,602	7	3:121,059	5	3:146,205		3:140,262		3:150,106		3:152,098
6	3:149,817	6	3:149,073	7	3:134,737	5	3:148,149		3:141,852		3:154,499		3:159,586
9	3:125,422	75	3:122,504	7	3:150,091	5	3:148,149		3:141,853		3:154,499		3:159,586
9	3:127,149	75	3:131,147	45	3:124,532	5	3:150,095		3:145,181		3:154,499		3:159,586
158	3:120,944	75	3:154,489	46.3	3:125,527	5	3:152,082		3:145,182		3:154,499		3:159,586
	3:130,951	8	3:122,502	3	3:150,092	5	3:154,493		3:155,623		3:147,225		3:161,604
161	3:124,333	8	3:161,594	3	3:132,103	5	3:155,622		3:147,225		3:153,633		3:161,604
163	3:141,648	11	3:125,519	6	3:135,694	5	3:155,623		3:148,151		3:153,633		3:161,604
	3:157,380	12	3:125,505	6	3:135,694	5	3:155,623		3:148,151		3:153,633		3:161,604
165	3:117,763	15	3:126,339	6	3:143,507	5	3:156,650		3:150,099		3:153,633		3:161,604
167	3:152,786	5	3:118,838	6	3:161,596	5	3:156,651		3:150,100		3:153,633		3:161,604
171	3:119,593	3	3:121,686	7	3:117,089	5	3:162,603		3:151,085		3:153,633		3:161,604
	3:132,836	18	3:117,085	7	3:133,022	9	3:117,094		3:151,086		3:153,633		3:161,604
	3:156,445		3:12										

Class 253 - Con.	132 : 3,138,365	6 : 3,163,402	161 : 3,128,997
39,155 : 3,135,496	133 : 3,152,788	8 : 3,123,341	162 : 3,131,913
15 : 3,149,819	134 : 3,125,549	9 : 3,121,557	163 : 3,151,849
15 : 3,163,396	3 : 3,130,958	10 : 3,140,860	164 : 3,152,977
40 : 3,116,908	3 : 3,133,725	11 : 3,162,428	165 : 3,128,085
52 : 3,137,477	3 : 3,134,575	12 : 3,163,403	166 : 3,136,533
3,149,820	3 : 3,136,529	13 : 3,140,861	167 : 3,158,361
3,160,392	3 : 3,140,077	14 : 3,154,294	168 : 3,160,398
3,162,421	3 : 3,145,016	15 : 3,151,843	169 : 3,160,400
59 : 3,128,989	3 : 3,145,972	16 : 3,131,911	170 : 3,155,377
3,145,970	3 : 3,145,973	17 : 3,134,576	171 : 3,158,362
65 : 3,139,264	3 : 3,146,994	18 : 3,123,342	
3,143,334	3 : 3,156,449	19 : 3,128,995	
66 : 3,138,363	3 : 3,160,394	20 : 3,155,375	
69 : 3,156,447	3 : 3,119,509	21 : 3,151,844	
77 : 3,119,595	3 : 3,119,600	22 : 3,147,956	
3,129,921	3 : 3,120,947	23 : 3,151,845	
3,132,842	3 : 3,121,556	24 : 3,161,403	
3,137,478	3 : 3,122,842	25 : 3,136,531	
3,157,385	137 : 3,119,601	26 : 3,145,295	
3,158,353	139 : 3,123,340	27 : 3,155,376	
3,163,397	3,128,081	28 : 3,155,377	
78 : 3,129,922	3,141,653	29 : 3,155,378	
3,142,475	3,141,654	30 : 3,155,379	
3,149,265	3,141,655	31 : 3,155,380	
3,140,855	3,141,656	32 : 3,155,381	
3,140,872	3,141,657	33 : 3,155,382	
142 : 3,140,074	3,141,658	34 : 3,155,383	
148 : 3,162,422	3,141,659	35 : 3,155,384	
	3,141,660	36 : 3,155,385	
	3,141,661	37 : 3,155,386	
	3,141,662	38 : 3,155,387	
	3,141,663	39 : 3,155,388	
	3,141,664	40 : 3,155,389	
	3,141,665	41 : 3,155,390	
	3,141,666	42 : 3,155,391	
	3,141,667	43 : 3,155,392	
	3,141,668	44 : 3,155,393	
	3,141,669	45 : 3,155,394	
	3,141,670	46 : 3,155,395	
	3,141,671	47 : 3,155,396	
	3,141,672	48 : 3,155,397	
	3,141,673	49 : 3,155,398	
	3,141,674	50 : 3,155,399	
	3,141,675	51 : 3,155,400	
	3,141,676	52 : 3,155,401	
	3,141,677	53 : 3,155,402	
	3,141,678	54 : 3,155,403	
	3,141,679	55 : 3,155,404	
	3,141,680	56 : 3,155,405	
	3,141,681	57 : 3,155,406	
	3,141,682	58 : 3,155,407	
	3,141,683	59 : 3,155,408	
	3,141,684	60 : 3,155,409	
	3,141,685	61 : 3,155,410	
	3,141,686	62 : 3,155,411	
	3,141,687	63 : 3,155,412	
	3,141,688	64 : 3,155,413	
	3,141,689	65 : 3,155,414	
	3,141,690	66 : 3,155,415	
	3,141,691	67 : 3,155,416	
	3,141,692	68 : 3,155,417	
	3,141,693	69 : 3,155,418	
	3,141,694	70 : 3,155,419	
	3,141,695	71 : 3,155,420	
	3,141,696	72 : 3,155,421	
	3,141,697	73 : 3,155,422	
	3,141,698	74 : 3,155,423	
	3,141,699	75 : 3,155,424	
	3,141,700	76 : 3,155,425	
	3,141,701	77 : 3,155,426	
	3,141,702	78 : 3,155,427	
	3,141,703	79 : 3,155,428	
	3,141,704	80 : 3,155,429	
	3,141,705	81 : 3,155,430	
	3,141,706	82 : 3,155,431	
	3,141,707	83 : 3,155,432	
	3,141,708	84 : 3,155,433	
	3,141,709	85 : 3,155,434	
	3,141,710	86 : 3,155,435	
	3,141,711	87 : 3,155,436	
	3,141,712	88 : 3,155,437	
	3,141,713	89 : 3,155,438	
	3,141,714	90 : 3,155,439	
	3,141,715	91 : 3,155,440	
	3,141,716	92 : 3,155,441	
	3,141,717	93 : 3,155,442	
	3,141,718	94 : 3,155,443	
	3,141,719	95 : 3,155,444	
	3,141,720	96 : 3,155,445	
	3,141,721	97 : 3,155,446	
	3,141,722	98 : 3,155,447	
	3,141,723	99 : 3,155,448	
	3,141,724	100 : 3,155,449	
	3,141,725	101 : 3,155,450	
	3,141,726	102 : 3,155,451	
	3,141,727	103 : 3,155,452	
	3,141,728	104 : 3,155,453	
	3,141,729	105 : 3,155,454	
	3,141,730	106 : 3,155,455	
	3,141,731	107 : 3,155,456	
	3,141,732	108 : 3,155,457	
	3,141,733	109 : 3,155,458	
	3,141,734	110 : 3,155,459	
	3,141,735	111 : 3,155,460	
	3,141,736	112 : 3,155,461	
	3,141,737	113 : 3,155,462	
	3,141,738	114 : 3,155,463	
	3,141,739	115 : 3,155,464	
	3,141,740	116 : 3,155,465	
	3,141,741	117 : 3,155,466	
	3,141,742	118 : 3,155,467	
	3,141,743	119 : 3,155,468	
	3,141,744	120 : 3,155,469	
	3,141,745	121 : 3,155,470	
	3,141,746	122 : 3,155,471	
	3,141,747	123 : 3,155,472	
	3,141,748	124 : 3,155,473	
	3,141,749	125 : 3,155,474	
	3,141,750	126 : 3,155,475	
	3,141,751	127 : 3,155,476	
	3,141,752	128 : 3,155,477	
	3,141,753	129 : 3,155,478	
	3,141,754	130 : 3,155,479	
	3,141,755	131 : 3,155,480	
	3,141,756	132 : 3,155,481	
	3,141,757	133 : 3,155,482	
	3,141,758	134 : 3,155,483	
	3,141,759	135 : 3,155,484	
	3,141,760	136 : 3,155,485	
	3,141,761	137 : 3,155,486	
	3,141,762	138 : 3,155,487	
	3,141,763	139 : 3,155,488	
	3,141,764	140 : 3,155,489	
	3,141,765	141 : 3,155,490	
	3,141,766	142 : 3,155,491	
	3,141,767	143 : 3,155,492	
	3,141,768	144 : 3,155,493	
	3,141,769	145 : 3,155,494	
	3,141,770	146 : 3,155,495	
	3,141,771	147 : 3,155,496	
	3,141,772	148 : 3,155,497	
	3,141,773	149 : 3,155,498	
	3,141,774	150 : 3,155,499	
	3,141,775	151 : 3,155,500	
	3,141,776	152 : 3,155,501	
	3,141,777	153 : 3,155,502	
	3,141,778	154 : 3,155,503	
	3,141,779	155 : 3,155,504	
	3,141,780	156 : 3,155,505	
	3,141,781	157 : 3,155,506	
	3,141,782	158 : 3,155,507	
	3,141,783	159 : 3,155,508	
	3,141,784	160 : 3,155,509	
	3,141,785	161 : 3,155,510	
	3,141,786	162 : 3,155,511	
	3,141,787	163 : 3,155,512	
	3,141,788	164 : 3,155,513	
	3,141,789	165 : 3,155,514	
	3,141,790	166 : 3,155,515	
	3,141,791	167 : 3,155,516	
	3,141,792	168 : 3,155,517	
	3,141,793	169 : 3,155,518	
	3,141,794	170 : 3,155,519	
	3,141,795	171 : 3,155,520	
	3,141,796	172 : 3,155,521	
	3,141,797	173 : 3,155,522	
	3,141,798	174 : 3,155,523	
	3,141,799	175 : 3,155,524	
	3,141,800	176 : 3,155,525	
	3,141,801	177 : 3,155,526	
	3,141,802	178 : 3,155,527	
	3,141,803	179 : 3,155,528	
	3,141,804	180 : 3,155,529	
	3,141,805	181 : 3,155,530	
	3,141,806	182 : 3,155,531	
	3,141,807	183 : 3,155,532	
	3,141,808	184 : 3,155,533	
	3,141,809	185 : 3,155,534	
	3,141,810	186 : 3,155,535	
	3,141,811	187 : 3,155,536	
	3,141,812	188 : 3,155,537	
	3,141,813	189 : 3,155,538	
	3,141,814	190 : 3,155,539	
	3,141,815	191 : 3,155,540	
	3,141,816	192 : 3,155,541	
	3,141,817	193 : 3,155,542	
	3,141,818	194 : 3,155,543	
	3,141,819	195 : 3,155,544	
	3,141,820	196 : 3,155,545	
	3,141,821	197 : 3,155,546	
	3,141,822	198 : 3,155,547	
	3,141,823	199 : 3,155,548	
	3,141,824	200 : 3,155,549	
	3,141,825	201 : 3,155,550	
	3,141,826	202 : 3,155,551	
	3,141,827	203 : 3,155,552	
	3,141,828	204 : 3,155,553	
	3,141,829	205 : 3,155,554	
	3,141,830	206 : 3,155,555	
	3,141,831	207 : 3,155,556	
	3,141,832	208 : 3,155,557	
	3,141,833	209 : 3,155,558	
	3,141,834	210 : 3,155,559	
	3,141,835	211 : 3,155,560	
	3,141,836	212 : 3,155,561	
	3,141,837	213 : 3,155,562	
	3,141,838	214 : 3,155,563	
	3,141,839	215 : 3,155,564	
	3,141,840	216 : 3,155,565	
	3,141,841	217 : 3,155,566	
	3,141,842	218 : 3,155,567	
	3,141,843	219 : 3,155,568	
	3,141,844	220 : 3,155,569	
	3,141,845	221 : 3,155,570	
	3,141,846	222 : 3,155,571	
	3,141,847	223 : 3,155,572	
	3,141,848	224 : 3,155,573	
	3,141,849	225 : 3,155,574	
	3,141,850	226 : 3,155,575	
	3,141,851	227 : 3,155,576	
	3,141,852	228 : 3,155,577	
	3,141,853	229 : 3,155,578	
	3,141,854	230 : 3,155,579	
	3,141,855	231 : 3,155,580	
	3,141,856	232 : 3,155,581	
	3,141,857	233 : 3,155,582	
	3,141,858	234 : 3,155,583	
	3,141,859	235 : 3,155,584	
	3,141,860	236 : 3,155,585	
	3,141,861	237 : 3,155,586	
	3,141,862	238 : 3,155,587	
	3,141,863	239 : 3,155,588	
	3,141,864	240 : 3,155,589	
	3,141,865	241 : 3,155,590	
	3,141,866	242 : 3,155,591	
	3,141,867	243 : 3,155,592	
	3,141,868	244 : 3,155,593	
	3,141,869	245 : 3,155,594	
	3,141,870	246 : 3,155,595	
	3,141,871	247 : 3,155,596	
	3,141,872	248 : 3,155,597	
	3,141,873	249 : 3,155,598	
	3,141,874	250 : 3,155,599	
	3,141,875	251 : 3,155,600	
	3,141,876	252 : 3,155,601	
	3,141,877	253 : 3,155,602	
	3,141,878	254 : 3,155,603	
	3,141,879	255 : 3,155,604	
	3,141,880	256 : 3,155,605	
	3,141,881	257 : 3,155,60	

Class 260—Con.	239.3 : 3,119,814	239.55 : 3,141,016	240.7 : 3,149,105	247.5 : 3,123,605	251 : 3,133,922	268 : 3,146,236
210 : 3,152,115	3 : 3,121,076	55 : 3,141,017	241 : 3,151,111	5 : 3,125,573	3,137,697	3,147,260
3,153,035	3 : 3,121,077	55 : 3,141,876	242 : 3,117,123	5 : 3,125,574	3,149,109	3,147,261
3,154,536	3 : 3,122,554	55 : 3,141,877	3,122,536	5 : 3,126,380	3,154,550	3,148,190
3,157,634	3 : 3,133,055	55 : 3,144,449	3,126,337	5 : 3,136,764	3,162,634	3,149,114
5 : 3,136,753	3 : 3,133,056	55 : 3,145,199	3,130,193	5 : 3,137,692	3,162,636	3,149,115
5 : 3,151,108	3 : 3,134,768	55 : 3,145,200	3,132,141	5 : 3,137,693	3,122,543	3,150,138
5 : 3,163,636	3 : 3,136,755	55 : 3,145,201	3,133,059	5 : 3,138,592	3,122,544	3,150,139
3,118,875	3 : 3,139,424	55 : 3,145,202	3,134,254	5 : 3,141,019	3,122,545	3,151,115
3,122,535	3 : 3,143,543	55 : 3,146,231	3,135,122	5 : 3,149,108	3,122,546	3,151,116
3,142,672	3 : 3,145,198	55 : 3,147,248	3,137,125	5 : 3,153,659	3,122,547	3,152,129
3,145,197	3 : 3,150,125	55 : 3,146,230	3,117,126	5 : 3,155,659	3,122,548	3,153,040
3,158,599	3 : 3,152,117	55 : 3,147,249	3,117,127	5 : 3,157,659	3,122,549	3,154,552
3 : 3,118,876	3 : 3,152,118	55 : 3,147,250	3,117,128	5 : 3,159,659	3,122,550	3,155,656
5 : 3,120,509	3 : 3,152,119	55 : 3,147,251	3,117,129	5 : 3,161,659	3,122,551	3,156,660
5 : 3,120,510	3 : 3,152,120	55 : 3,147,252	3,117,130	5 : 3,163,659	3,122,552	3,157,664
5 : 3,120,511	3 : 3,152,121	55 : 3,147,253	3,117,131	5 : 3,165,659	3,122,553	3,158,668
5 : 3,125,567	3 : 3,152,122	55 : 3,147,254	3,117,132	5 : 3,167,659	3,122,554	3,159,672
5 : 3,126,372	3 : 3,152,123	55 : 3,147,255	3,117,133	5 : 3,169,659	3,122,555	3,160,676
5 : 3,132,135	3 : 3,152,124	55 : 3,147,256	3,117,134	5 : 3,171,659	3,122,556	3,161,680
5 : 3,133,937	3 : 3,152,125	55 : 3,147,257	3,117,135	5 : 3,173,659	3,122,557	3,162,684
5 : 3,135,737	3 : 3,152,126	55 : 3,147,258	3,117,136	5 : 3,175,659	3,122,558	3,163,688
5 : 3,138,582	3 : 3,152,127	55 : 3,147,259	3,117,137	5 : 3,177,659	3,122,559	3,164,692
5 : 3,140,281	3 : 3,152,128	55 : 3,147,260	3,117,138	5 : 3,179,659	3,122,560	3,165,696
5 : 3,140,282	3 : 3,152,129	55 : 3,147,261	3,117,139	5 : 3,181,659	3,122,561	3,166,700
5 : 3,140,283	3 : 3,152,130	55 : 3,147,262	3,117,140	5 : 3,183,659	3,122,562	3,167,704
5 : 3,140,284	3 : 3,152,131	55 : 3,147,263	3,117,141	5 : 3,185,659	3,122,563	3,168,708
5 : 3,140,285	3 : 3,152,132	55 : 3,147,264	3,117,142	5 : 3,187,659	3,122,564	3,169,712
5 : 3,140,286	3 : 3,152,133	55 : 3,147,265	3,117,143	5 : 3,189,659	3,122,565	3,170,716
5 : 3,140,287	3 : 3,152,134	55 : 3,147,266	3,117,144	5 : 3,191,659	3,122,566	3,171,720
5 : 3,140,288	3 : 3,152,135	55 : 3,147,267	3,117,145	5 : 3,193,659	3,122,567	3,172,724
5 : 3,140,289	3 : 3,152,136	55 : 3,147,268	3,117,146	5 : 3,195,659	3,122,568	3,173,728
5 : 3,140,290	3 : 3,152,137	55 : 3,147,269	3,117,147	5 : 3,197,659	3,122,569	3,174,732
5 : 3,140,291	3 : 3,152,138	55 : 3,147,270	3,117,148	5 : 3,199,659	3,122,570	3,175,736
5 : 3,140,292	3 : 3,152,139	55 : 3,147,271	3,117,149	5 : 3,201,659	3,122,571	3,176,740
5 : 3,140,293	3 : 3,152,140	55 : 3,147,272	3,117,150	5 : 3,203,659	3,122,572	3,177,744
5 : 3,140,294	3 : 3,152,141	55 : 3,147,273	3,117,151	5 : 3,205,659	3,122,573	3,178,748
5 : 3,140,295	3 : 3,152,142	55 : 3,147,274	3,117,152	5 : 3,207,659	3,122,574	3,179,752
5 : 3,140,296	3 : 3,152,143	55 : 3,147,275	3,117,153	5 : 3,209,659	3,122,575	3,180,756
5 : 3,140,297	3 : 3,152,144	55 : 3,147,276	3,117,154	5 : 3,211,659	3,122,576	3,181,760
5 : 3,140,298	3 : 3,152,145	55 : 3,147,277	3,117,155	5 : 3,213,659	3,122,577	3,182,764
5 : 3,140,299	3 : 3,152,146	55 : 3,147,278	3,117,156	5 : 3,215,659	3,122,578	3,183,768
5 : 3,140,300	3 : 3,152,147	55 : 3,147,279	3,117,157	5 : 3,217,659	3,122,579	3,184,772
5 : 3,140,301	3 : 3,152,148	55 : 3,147,280	3,117,158	5 : 3,219,659	3,122,580	3,185,776
5 : 3,140,302	3 : 3,152,149	55 : 3,147,281	3,117,159	5 : 3,221,659	3,122,581	3,186,780
5 : 3,140,303	3 : 3,152,150	55 : 3,147,282	3,117,160	5 : 3,223,659	3,122,582	3,187,784
5 : 3,140,304	3 : 3,152,151	55 : 3,147,283	3,117,161	5 : 3,225,659	3,122,583	3,188,788
5 : 3,140,305	3 : 3,152,152	55 : 3,147,284	3,117,162	5 : 3,227,659	3,122,584	3,189,792
5 : 3,140,306	3 : 3,152,153	55 : 3,147,285	3,117,163	5 : 3,229,659	3,122,585	3,190,796
5 : 3,140,307	3 : 3,152,154	55 : 3,147,286	3,117,164	5 : 3,231,659	3,122,586	3,191,800
5 : 3,140,308	3 : 3,152,155	55 : 3,147,287	3,117,165	5 : 3,233,659	3,122,587	3,192,804
5 : 3,140,309	3 : 3,152,156	55 : 3,147,288	3,117,166	5 : 3,235,659	3,122,588	3,193,808
5 : 3,140,310	3 : 3,152,157	55 : 3,147,289	3,117,167	5 : 3,237,659	3,122,589	3,194,812
5 : 3,140,311	3 : 3,152,158	55 : 3,147,290	3,117,168	5 : 3,239,659	3,122,590	3,195,816
5 : 3,140,312	3 : 3,152,159	55 : 3,147,291	3,117,169	5 : 3,241,659	3,122,591	3,196,820
5 : 3,140,313	3 : 3,152,160	55 : 3,147,292	3,117,170	5 : 3,243,659	3,122,592	3,197,824
5 : 3,140,314	3 : 3,152,161	55 : 3,147,293	3,117,171	5 : 3,245,659	3,122,593	3,198,828
5 : 3,140,315	3 : 3,152,162	55 : 3,147,294	3,117,172	5 : 3,247,659	3,122,594	3,199,832
5 : 3,140,316	3 : 3,152,163	55 : 3,147,295	3,117,173	5 : 3,249,659	3,122,595	3,200,836
5 : 3,140,317	3 : 3,152,164	55 : 3,147,296	3,117,174	5 : 3,251,659	3,122,596	3,201,840
5 : 3,140,318	3 : 3,152,165	55 : 3,147,297	3,117,175	5 : 3,253,659	3,122,597	3,202,844
5 : 3,140,319	3 : 3,152,166	55 : 3,147,298	3,117,176	5 : 3,255,659	3,122,598	3,203,848
5 : 3,140,320	3 : 3,152,167	55 : 3,147,299	3,117,177	5 : 3,257,659	3,122,599	3,204,852
5 : 3,140,321	3 : 3,152,168	55 : 3,147,300	3,117,178	5 : 3,259,659	3,122,600	3,205,856
5 : 3,140,322	3 : 3,152,169	55 : 3,147,301	3,117,179	5 : 3,261,659	3,122,601	3,206,860
5 : 3,140,323	3 : 3,152,170	55 : 3,147,302	3,117,180	5 : 3,263,659	3,122,602	3,207,864
5 : 3,140,324	3 : 3,152,171	55 : 3,147,303	3,117,181	5 : 3,265,659	3,122,603	3,208,868
5 : 3,140,325	3 : 3,152,172	55 : 3,147,304	3,117,182	5 : 3,267,659	3,122,604	3,209,872
5 : 3,140,326	3 : 3,152,173	55 : 3,147,305	3,117,183	5 : 3,269,659	3,122,605	3,210,876
5 : 3,140,327	3 : 3,152,174	55 : 3,147,306	3,117,184	5 : 3,271,659	3,122,606	3,211,880
5 : 3,140,328	3 : 3,152,175	55 : 3,147,307	3,117,185	5 : 3,273,659	3,122,607	3,212,884
5 : 3,140,329	3 : 3,152,176	55 : 3,147,308	3,117,186	5 : 3,275,659	3,122,608	3,213,888
5 : 3,140,330	3 : 3,152,177	55 : 3,147,309	3,117,187	5 : 3,277,659	3,122,609	3,214,892
5 : 3,140,331	3 : 3,152,178	55 : 3,147,310	3,117,188	5 : 3,279,659	3,122,610	3,215,896
5 : 3,140,332	3 : 3,152,179	55 : 3,147,311	3,117,189	5 : 3,281,659	3,122,611	3,216,900
5 : 3,140,333	3 : 3,152,180	55 : 3,147,312	3,117,190	5 : 3,283,659	3,122,612	3,217,904
5 : 3,140,334	3 : 3,152,181	55 : 3,147,313	3,117,191	5 : 3,285,659	3,122,613	3,218,908
5 : 3,140,335	3 : 3,152,182	55 : 3,147,314	3,117,192	5 : 3,287,659	3,122,614	3,219,912
5 : 3,140,336	3 : 3,152,183	55 : 3,147,315	3,117,193	5 : 3,289,659	3,122,615	3,220,916
5 : 3,140,337	3 : 3,152,184	55 : 3,147,316	3,117,194	5 : 3,291,659	3,122,616	3,221,920
5 : 3,140,338	3 : 3,152,185	55 : 3,147,317	3,117,195	5 : 3,293,659	3,122,617	3,222,924
5 : 3,140,339	3 : 3,152,186	55 : 3,147,318	3,117,196	5 : 3,295,659	3,122,618	3,223,928
5 : 3,140,340	3 : 3,152,187	55 : 3,147,319	3,117,197	5 : 3,297,659	3,122,619	3,224,932
5 : 3,140,341	3 : 3,152,188	55 : 3,147,320	3,117,198	5 : 3,299,659	3,122,620	3,225,936
5 : 3,140,342	3 : 3,152,189	55 : 3,147,321	3,117,199	5 : 3,301,659	3,122,621	3,226,940
5 : 3,140,343	3 : 3,152,190	55 : 3,147,322	3,117,200	5 : 3,303,659	3,122,622	3,227,944
5 : 3,140,344	3 : 3,152,191	55 : 3,147,323	3,117,201	5 : 3,305,659	3,122,623	3,228,948
5 : 3,140,345	3 : 3,152,192	55 : 3,147,324	3,117,202	5 : 3,307,659	3,122,624	3,229,952
5 : 3,140,346	3 : 3,152,193	55 : 3,147,325	3,117,203	5 : 3,309,659	3,122,625	3,230,956
5 : 3,140,347	3 : 3,152,194	55 : 3,147,326	3,117,204	5 : 3,311,659	3,122,626	3,231,960
5 : 3,140,348	3 : 3,152,195	55 : 3,147,327	3,117,205	5 : 3,313,659	3,122,627	3,232,964
5 : 3,140,349	3 : 3,152,196	55 : 3,147,328	3,117,206	5 : 3,315,659	3,122,628	3,233,968
5 : 3,140,350	3 : 3,152,197	55 : 3,147,329	3,117,207	5 : 3,317,659	3,122,629	3,234,972
5 : 3,140,351	3 : 3,152,198	55 : 3,147,330	3,117,208	5 : 3,319,659	3,122,630	3,235,976
5 : 3,140,352	3 : 3,152,199	55 : 3,147,331	3,117,209	5 : 3,321,659	3,122,631	3,236,980
5 : 3,140,353	3 : 3,152,200	55 : 3,147,332	3,117,210	5 : 3,323,659	3,122,632	3,237,984
5 : 3,140,354	3 : 3,152,201	55 : 3,147,333	3,117,211	5 : 3,325,659	3,122,633	3,238,988
5 : 3,140,355	3 : 3,152,202	55 : 3,147,334	3,117,212	5 : 3,327,659	3,122,634	3,239,992
5 : 3,140,356	3 : 3,152,203	55 : 3,147,335	3,117,213	5 : 3,329,659	3,122,635	3,240,996
5 : 3,140,357	3 : 3,152,204	55 : 3,147,336	3,117,214	5 : 3,331,659	3,122,636	3,241,000
5 : 3,140,358	3 : 3,152,205	55 : 3,147,337	3,117,215	5 : 3,333,659	3,122,637	3,242,004
5 : 3,140,359	3 : 3,152,206	55 : 3,147,338	3,117,216	5 : 3,335,659	3,122,638	3,243,008
5 : 3,140,360	3 : 3,152,207	55 : 3,147,339	3,117,217	5 : 3,337,659	3,122,639	3,244,012
5 : 3,140,361	3 : 3,152,208	55 : 3,147,340	3,117,218	5 : 3,339,659	3,122,640	3,245,016
5 : 3,140,362	3 : 3,152,209	55 : 3,147,341	3,117,219	5 : 3,341,659	3,122,641</	

Class 260—Con.

397.4 : 3,132,161	401 : 3,153,070	437 : 3,133,100	453 : 3,118,922	461 : 3,147,297	465 : 3,157,687	473 : 3,158,645
4 : 3,134,791	403 : 3,151,137	3,133,101	3,118,923	3,147,298	3,158,642	3,119,788
4 : 3,134,792	404 : 3,119,848	3,133,102	3,118,925	3,147,299	3,158,643	3,120,559
4 : 3,134,793	3,122,574	3,133,103	3,119,856	3,149,142	3,159,666	3,120,560
4 : 3,135,772	3,122,575	3,133,104	3,124,605	3,149,143	3,160,653	3,123,632
4 : 3,136,789	5 : 3,131,201	3,133,105	3,126,404	3,149,144	3,162,675	3,123,633
4 : 3,136,790	5 : 3,133,094	3,133,106	3,129,238	3,149,145	3,125,595	3,128,302
4 : 3,136,791	5 : 3,133,941	3,133,107	3,145,223	3,150,162	3,132,173	3,129,243
4 : 3,136,792	5 : 3,148,199	3,133,108	3,147,293	3,151,146	3,138,632	3,130,220
4 : 3,137,709	5 : 3,151,138	3,133,109	3,147,294	3,151,147	3,138,633	3,140,309
4 : 3,138,621	8 : 3,119,849	3,133,110	3,151,141	3,152,164	3,142,696	3,148,207
4 : 3,138,622	8 : 3,141,897	3,133,111	3,151,142	3,152,165	3,144,474	3,148,208
4 : 3,139,446	8 : 3,155,696	3,133,112	3,156,716	3,153,080	3,145,226	3,155,714
4 : 3,141,028	405 : 3,125,592	3,133,113	3,158,636	3,153,081	3,147,296	3,155,715
4 : 3,143,556	3,142,692	438 : 3,129,237	3,148,202	3,153,663	3,148,203	3,157,691
4 : 3,144,469	6 : 3,119,850	3,133,945	3,149,139	3,155,703	3,149,140	3,135,784
4 : 3,144,470	6 : 3,162,658	3,134,797	3,151,143	3,155,704	3,151,143	3,131,213
4 : 3,145,221	407 : 3,157,681	3,136,796	3,151,144	3,155,705	3,151,144	3,131,214
4 : 3,146,245	408 : 3,140,303	3,136,797	3,152,162	3,155,706	3,152,162	3,131,215
4 : 3,147,289	3,145,222	3,136,798	3,153,077	3,155,707	3,153,077	3,132,176
4 : 3,149,132	409 : 3,123,626	3,136,799	3,153,078	3,155,708	3,153,078	3,133,116
4 : 3,150,155	3,123,627	439 : 3,152,157	3,155,699	3,155,709	3,155,699	3,134,806
4 : 3,152,153	3,129,235	3,121,729	3,155,700	3,155,710	3,155,700	3,147,300
4 : 3,155,691	410 : 3,136,794	3,122,577	3,157,683	3,155,711	3,157,683	3,147,301
4 : 3,155,692	3,150,157	3,126,401	3,160,648	3,155,712	3,157,684	3,147,302
4 : 3,155,693	3,153,071	3,130,216	3,161,665	3,155,713	3,157,685	3,147,303
4 : 3,157,679	5 : 3,132,164	3,132,165	3,162,664	3,155,714	3,157,686	3,147,304
4 : 3,157,680	6 : 3,124,602	3,133,946	3,162,665	3,155,715	3,157,687	3,147,305
4 : 3,158,629	6 : 3,138,624	3,137,715	3,162,666	3,155,716	3,157,688	3,147,306
4 : 3,158,630	6 : 3,148,200	3,139,447	3,162,667	3,155,717	3,157,689	3,147,307
4 : 3,160,642	7 : 3,160,646	3,141,031	3,162,668	3,155,718	3,157,690	3,147,308
4 : 3,160,643	8 : 3,153,659	3,149,135	3,162,669	3,155,719	3,157,691	3,147,309
4 : 3,161,661	9 : 3,117,145	3,150,160	3,162,670	3,155,720	3,157,692	3,147,310
4 : 3,162,655	9 : 3,123,628	3,152,158	3,162,671	3,155,721	3,157,693	3,147,311
4 : 3,162,656	9 : 3,125,593	3,159,660	3,162,672	3,155,722	3,157,694	3,147,312
4 : 3,162,657	9 : 3,128,295	3,126,402	3,162,673	3,155,723	3,157,695	3,147,313
4 : 3,162,658	9 : 3,141,030	3,132,166	3,162,674	3,155,724	3,157,696	3,147,314
4 : 3,162,659	9 : 3,146,246	3,133,106	3,162,675	3,155,725	3,157,697	3,147,315
4 : 3,162,660	9 : 3,156,714	3,133,107	3,162,676	3,155,726	3,157,698	3,147,316
4 : 3,162,661	9 : 3,158,633	3,137,716	3,162,677	3,155,727	3,157,699	3,147,317
4 : 3,162,662	412.6 : 3,158,634	3,147,295	3,162,678	3,155,728	3,157,700	3,147,318
4 : 3,162,663	8 : 3,131,202	3,152,159	3,162,679	3,155,729	3,157,701	3,147,319
4 : 3,162,664	8 : 3,155,697	3,152,160	3,162,680	3,155,730	3,157,702	3,147,320
4 : 3,162,665	413 : 3,121,728	3,162,661	3,162,681	3,155,731	3,157,703	3,147,321
4 : 3,162,666	3,153,072	446 : 3,158,637	3,162,682	3,155,732	3,157,704	3,147,322
4 : 3,162,667	3,162,659	448 : 3,122,578	3,162,683	3,155,733	3,157,705	3,147,323
4 : 3,162,668	3,127,432	3,127,432	3,162,684	3,155,734	3,157,706	3,147,324
4 : 3,162,669	3,128,296	3,128,296	3,162,685	3,155,735	3,157,707	3,147,325
4 : 3,162,670	3,137,717	3,137,717	3,162,686	3,155,736	3,157,708	3,147,326
4 : 3,162,671	3,138,626	3,138,626	3,162,687	3,155,737	3,157,709	3,147,327
4 : 3,162,672	3,146,247	3,146,247	3,162,688	3,155,738	3,157,710	3,147,328
4 : 3,162,673	3,149,136	3,149,136	3,162,689	3,155,739	3,157,711	3,147,329
4 : 3,162,674	3,153,075	3,153,075	3,162,690	3,155,740	3,157,712	3,147,330
4 : 3,162,675	3,153,076	3,153,076	3,162,691	3,155,741	3,157,713	3,147,331
4 : 3,162,676	3,153,077	3,153,077	3,162,692	3,155,742	3,157,714	3,147,332
4 : 3,162,677	3,153,078	3,153,078	3,162,693	3,155,743	3,157,715	3,147,333
4 : 3,162,678	3,153,079	3,153,079	3,162,694	3,155,744	3,157,716	3,147,334
4 : 3,162,679	3,153,080	3,153,080	3,162,695	3,155,745	3,157,717	3,147,335
4 : 3,162,680	3,153,081	3,153,081	3,162,696	3,155,746	3,157,718	3,147,336
4 : 3,162,681	3,153,082	3,153,082	3,162,697	3,155,747	3,157,719	3,147,337
4 : 3,162,682	3,153,083	3,153,083	3,162,698	3,155,748	3,157,720	3,147,338
4 : 3,162,683	3,153,084	3,153,084	3,162,699	3,155,749	3,157,721	3,147,339
4 : 3,162,684	3,153,085	3,153,085	3,162,700	3,155,750	3,157,722	3,147,340
4 : 3,162,685	3,153,086	3,153,086	3,162,701	3,155,751	3,157,723	3,147,341
4 : 3,162,686	3,153,087	3,153,087	3,162,702	3,155,752	3,157,724	3,147,342
4 : 3,162,687	3,153,088	3,153,088	3,162,703	3,155,753	3,157,725	3,147,343
4 : 3,162,688	3,153,089	3,153,089	3,162,704	3,155,754	3,157,726	3,147,344
4 : 3,162,689	3,153,090	3,153,090	3,162,705	3,155,755	3,157,727	3,147,345
4 : 3,162,690	3,153,091	3,153,091	3,162,706	3,155,756	3,157,728	3,147,346
4 : 3,162,691	3,153,092	3,153,092	3,162,707	3,155,757	3,157,729	3,147,347
4 : 3,162,692	3,153,093	3,153,093	3,162,708	3,155,758	3,157,730	3,147,348
4 : 3,162,693	3,153,094	3,153,094	3,162,709	3,155,759	3,157,731	3,147,349
4 : 3,162,694	3,153,095	3,153,095	3,162,710	3,155,760	3,157,732	3,147,350
4 : 3,162,695	3,153,096	3,153,096	3,162,711	3,155,761	3,157,733	3,147,351
4 : 3,162,696	3,153,097	3,153,097	3,162,712	3,155,762	3,157,734	3,147,352
4 : 3,162,697	3,153,098	3,153,098	3,162,713	3,155,763	3,157,735	3,147,353
4 : 3,162,698	3,153,099	3,153,099	3,162,714	3,155,764	3,157,736	3,147,354
4 : 3,162,699	3,153,100	3,153,100	3,162,715	3,155,765	3,157,737	3,147,355
4 : 3,162,700	3,153,101	3,153,101	3,162,716	3,155,766	3,157,738	3,147,356
4 : 3,162,701	3,153,102	3,153,102	3,162,717	3,155,767	3,157,739	3,147,357
4 : 3,162,702	3,153,103	3,153,103	3,162,718	3,155,768	3,157,740	3,147,358
4 : 3,162,703	3,153,104	3,153,104	3,162,719	3,155,769	3,157,741	3,147,359
4 : 3,162,704	3,153,105	3,153,105	3,162,720	3,155,770	3,157,742	3,147,360
4 : 3,162,705	3,153,106	3,153,106	3,162,721	3,155,771	3,157,743	3,147,361
4 : 3,162,706	3,153,107	3,153,107	3,162,722	3,155,772	3,157,744	3,147,362
4 : 3,162,707	3,153,108	3,153,108	3,162,723	3,155,773	3,157,745	3,147,363
4 : 3,162,708	3,153,109	3,153,109	3,162,724	3,155,774	3,157,746	3,147,364
4 : 3,162,709	3,153,110	3,153,110	3,162,725	3,155,775	3,157,747	3,147,365
4 : 3,162,710	3,153,111	3,153,111	3,162,726	3,155,776	3,157,748	3,147,366
4 : 3,162,711	3,153,112	3,153,112	3,162,727	3,155,777	3,157,749	3,147,367
4 : 3,162,712	3,153,113	3,153,113	3,162,728	3,155,778	3,157,750	3,147,368
4 : 3,162,713	3,153,114	3,153,114	3,162,729	3,155,779	3,157,751	3,147,369
4 : 3,162,714	3,153,115	3,153,115	3,162,730	3,155,780	3,157,752	3,147,370
4 : 3,162,715	3,153,116	3,153,116	3,162,731	3,155,781	3,157,753	3,147,371
4 : 3,162,716	3,153,117	3,153,117	3,162,732	3,155,782	3,157,754	3,147,372
4 : 3,162,717	3,153,118	3,153,118	3,162,733	3,155,783	3,157,755	3,147,373
4 : 3,162,718	3,153,119	3,153,119	3,162,734	3,155,784	3,157,756	3,147,374
4 : 3,162,719	3,153,120	3,153,120	3,162,735	3,155,785	3,157,757	3,147,375
4 : 3,162,720	3,153,121	3,153,121	3,162,736	3,155,786	3,157,758	3,147,376
4 : 3,162,721	3,153,122	3,153,122	3,162,737	3,155,787	3,157,759	3,147,377
4 : 3,162,722	3,153,123	3,153,123	3,162,738	3,155,788	3,157,760	3,147,378
4 : 3,162,723	3,153,124	3,153,124	3,162,739	3,155,789	3,157,761	3,147,379
4 : 3,162,724	3,153,125	3,153,125	3,162,740	3,155,790	3,157,762	3,147,380
4 : 3,162,725	3,153,126	3,153,126	3,162,741	3,155,791	3,157,763	3,147,381
4 : 3,162,726	3,153,127	3,153,127	3,162,742	3,155,792	3,157,764	3,147,382
4 : 3,162,727	3,153,128	3,153,128	3,162,743	3,155,793	3,157,765	3,147,383
4 : 3,162,728	3,153,129	3,153,129	3,162,744	3,155,794	3,157,766	3,147,384
4 : 3,162,729	3,153,130	3,153,130	3,162,745	3,155,795	3,157,767	3,147,385
4 : 3,162,730	3,153,131	3,153,131	3,162,746	3,155,796	3,157,768	3,147,386
4 : 3,162,731	3,153,132	3,153,132	3,162,747	3,155,797	3,157,769	3,147,387
4 : 3,162,732	3,153,133	3,153,133	3,162,748	3,155,798	3,157,770	3,147,388
4 : 3,162,733	3,153,134	3,153,134	3,162,749	3,155,799	3,157,771	3,147,389
4 : 3,162,734	3,153,135	3,153,135	3,162,750	3,155,800	3,157,772	3,147,390
4 : 3,162,735	3,153,136	3,153,136	3,162,751	3,155,801	3,157,7	

CLASSIFICATION OF PATENTS

Class 260 - Con.		683.15 : 3,155,741	1 : 3,157,715	27 : 3,136,535
669	: 3,153,102	15: 3,156,735	2 : 3,126,427	29 : 3,116,914
	3,163,681	15: 3,157,712	3 : 3,151,187	33 : 3,127,153
670	: 3,145,237	15: 3,159,689	16 : 3,134,825	3,131,915
	3,149,175	15: 3,160,672		152 : 3,127,390
671	: 3,118,956	15: 3,161,697	17 : 3,125,613	
	3,121,123	2 : 3,150,202	22 : 3,121,127	
	3,123,650	2 : 3,151,179	23 : 3,149,184	
	3,126,421	3 : 3,126,426	24 : 3,117,170	
	3,126,422	3 : 3,148,228		3,118,957
	3,126,423	3 : 3,151,180		3,123,651
	3,129,255	44: 3,136,825		3,137,740
	3,129,256	46: 3,121,759	25 : 3,141,909	
	3,129,264	46: 3,133,975	27 : 3,157,716	4 : 3,158,363
	3,131,229	48: 3,155,742		3,161,700
	3,131,230	48: 3,158,661	28 : 3,123,652	6 : 3,119,603
	3,132,189	58: 3,133,128		3,131,236
	3,134,822	59: 3,150,204	29 : 3,128,320	
	3,136,824	59: 3,160,673		3,130,245
	3,153,103	59: 3,160,674		3,130,246
	3,153,677	61: 3,138,645		3,134,826
	3,160,670	62: 3,121,126		3,147,319
672	: 3,121,754	62: 3,162,694		3,151,188
	3,145,238	63: 3,154,596		3,155,746
	3,149,176	65: 3,128,319		3,155,747
	3,150,196	65: 3,142,713	30 : 3,132,190	7 : 3,131,917
	3,151,175	65: 3,146,279	32 : 3,133,976	8 : 3,155,378
	3,160,671	65: 3,149,180	35 : 3,118,009	10 : 3,122,358
673	: 3,125,610	65: 3,150,205		15 : 3,125,327
	3,126,424	65: 3,156,737		3,129,439
	3,149,177	68: 3,131,235	36 : 3,119,887	3,131,918
.5	: 3,119,881	74: 3,161,698		3,148,868
	3,150,197	75: 3,119,885		3,161,406
.5	: 3,151,176	75: 3,150,206		Re.25,626
674	: 3,121,756	75: 3,152,197	39 : 3,127,454	13 : 3,156,454
	3,126,425	75: 3,156,738		3,159,692
	3,131,123	76: 3,143,579	41 : 3,132,191	3,160,681
	3,148,226	9 : 3,149,178		3,160,682
	3,151,177	9 : 3,150,203	42 : 3,133,129	3,140,324
	3,155,738	9 : 3,155,740		3,163,683
	3,161,694	9 : 3,157,711	44 : 3,149,185	3,149,185
	3,162,693	9 : 3,163,682	50 : 3,130,247	3,151,189
676	: 3,121,757	723 : 3,158,663	51 : 3,147,320	3,155,747
	3,131,232	824 : 3,154,597	52 : 3,151,189	3,160,675
	3,134,823	826 : 3,160,675	59 : 3,132,192	3,151,850
677	: 3,119,882	827 : 3,150,207	60 : 3,136,827	3,153,532
	3,121,124	834 : 3,156,740	64 : 3,151,190	3,156,454
	3,125,611		69 : 3,160,683	3,159,385
	3,128,317	836 : 3,155,743		3,160,684
	3,129,265	837 : 3,147,313	70 : 3,139,462	3,160,401
	3,130,241		87 : 3,118,958	20 : 3,121,559
	3,130,242		93 : 3,154,601	3,129,931
	3,130,243		94 : 3,122,934	3,135,503
	3,142,710		96 : 3,150,210	21 : 3,116,658
	3,146,277	846 : 3,147,316	97 : 3,126,428	3,136,536
	3,150,198	847 : 3,151,097		3,143,580
	3,150,199		3,163,685	3,139,272
	3,150,200		98 : 3,136,828	3,140,862
	3,150,201	848 : 3,149,181	99 : 3,129,267	3,140,863
	3,150,202	857 : 3,160,677		3,145,019
	3,151,178	861 : 3,157,709	104 : 3,129,268	3,146,998
	3,152,193		3,136,829	3,155,379
	3,153,679		108 : 3,141,910	3,156,455
678	: 3,142,711		112 : 3,138,647	22 : 3,131,919
	3,147,312	864 : 3,159,690		3,145,239
	3,149,179	868 : 3,151,182		3,150,211
679	: 3,129,266	869 : 3,131,183	114 : 3,125,614	26 : 3,127,155
	3,131,233	873 : 3,162,695		3,132,193
	3,135,810	874 : 3,153,680		3,145,981
	3,140,323	878 : 3,155,744		3,125,328
	3,148,227		3,162,696	28 : 3,129,933
	3,152,194		3,162,697	3,144,214
	3,153,104	879 : 3,149,182		3,160,402
	3,156,733		3,162,701	29 : 3,140,864
	3,156,734	880 : 3,151,184	118 : 3,158,666	3,142,480
	3,161,695	881 : 3,156,741	121 : 3,130,248	30 : 3,140,865
680	: 3,117,169	883 : 3,129,210	123 : 3,133,130	32 : 3,152,795
	3,118,007	884 : 3,154,600		3,155,380
	3,119,111		3,154,602	3,159,386
	3,152,195	888 : 3,158,664		3,162,431
	3,156,735	889 : 3,151,185		3,160,916
	3,159,688		3,160,685	33 : 3,124,383
681	: 3,131,234	890 : 3,163,683		3,132,853
	3,142,712	891 : 3,147,317		3,135,504
	3,146,278		3,147,318	3,139,273
	3,157,710	894 : 3,151,186		3,141,657
.5	: 3,152,196	898 : 3,150,209	Class 262	3,145,979
682	: 3,121,758	899 : 3,159,691	1 : 3,136,534	3,152,796
	3,124,622	895 : 3,156,742		3,157,390
683	: 3,154,593	897 : 3,149,183	2 : 3,137,483	3,157,391
	3,154,594		3,137,484	3,144,245
	3,161,696		3,132,852	36 : 3,119,605
.15	: 3,119,884		3,130,960	3,142,481
.15	: 3,121,125		3,131,914	3,145,980
.15	: 3,125,612		3,135,501	3,154,298
.15	: 3,128,318		3,134,580	3,160,403
.15	: 3,130,244		3,138,667	37 : 3,138,372
.15	: 3,133,127		7 : 3,128,998	40 : 3,119,606
.15	: 3,134,824		8 : 3,118,657	3,151,851
.15	: 3,137,739		3,134,581	3,154,299
.15	: 3,149,179		3,137,484	3,159,387
.15	: 3,151,181		3,137,485	41 : 3,142,482
.15	: 3,154,595		3,135,502	42 : 3,160,404
			3,135,503	

43	:	3,127,156	54	:	3,160,689	182	:	3,135,812
		3,132,854			3,163,687			3,147,322
46	:	3,147,960	56	:	3,129,271	184	:	3,136,830
		3,123,335			3,163,688			3,154,612
47	:	3,123,339	57	:	3,157,178			3,154,613
		3,125,329	59	:	3,133,133	188	:	3,154,614
		3,141,658	63	:	3,125,618	191	:	3,126,435
		3,145,982			3,131,239			3,151,194
		3,149,827	69	:	3,139,465			3,153,687
		3,151,852			3,141,911	198	:	3,139,467
		3,156,456	73	:	3,137,746	200	:	3,133,136
		3,160,405	76	:	3,134,829	202	:	3,138,959
		3,163,408			3,145,241			3,121,766
48	:	3,131,920	78	:	3,155,754	209	:	3,135,813
		3,129,934	80	:	3,145,242			3,117,173
49	:	3,142,583			3,153,683			3,134,833
		3,134,584			3,153,684			3,141,913
		3,135,505			3,129,272			3,143,584
52	:	3,133,131	85	:	3,133,134			3,146,284
		3,134,828	86	:	3,153,107			3,159,688
53	:	3,127,455	87	:	3,163,689			3,161,700
		3,139,463	90	:	3,137,747	211	:	3,147,323
					3,157,719			3,148,234
					3,161,705	212	:	3,152,203
					3,140,325	213	:	3,142,715
					3,159,695	216	:	3,161,710
					3,139,696	219	:	3,141,051
					3,120,571			3,141,052
					3,151,193			3,156,751
					3,159,697	220	:	3,141,053
					3,121,761	225	:	3,136,833
					3,141,912			3,150,218
					3,144,494	228	:	3,162,708
					3,155,752	229	:	3,122,550
					3,157,720	230	:	3,118,966
					3,117,172			3,131,242
					3,137,748			3,139,466
					3,162,706			3,140,322
					3,125,596			3,152,204
					3,125,619	231	:	3,133,133
					3,127,458	232	:	3,140,322
					3,145,243	243	:	3,154,614
					3,162,707			3,137,747
					3,163,690	244	:	3,122,556
					3,121,762	247	:	3,144,494
					3,123,653	248	:	3,152,204
					3,154,608	249	:	3,163,689
					3,161,706	250	:	3,141,053
					3,148,232	254	:	3,147,323
					3,155,755	255	:	3,139,468
					3,162,708			3,141,054
					3,125,587	257	:	3,131,242
					3,150,215			3,133,998
					3,152,200			3,137,747
					3,158,668	258	:	3,150,212
					3,140,326	259	:	3,149,181
					3,161,707			3,150,212
					3,152,201	260	:	3,145,239
					3,140,327	261	:	3,133,999
					3,134,830			3,139,469
					3,130,249	262	:	3,151,194
					3,139,888	263	:	3,117,172
					3,141,049	266	:	3,146,284
					3,121,132			3,154,614
					3,161,708			3,154,614
					3,158,669			3,157,719
					3,127,459	267	:	3,149,181
					3,149,186	272	:	3,132,854
					3,146,283			3,132,854
					3,156,749			3,142,715
					3,157,721			3,146,283
					3,148,833	274	:	3,136,830
					3,150,216	275	:	3,145,239
					3,156,749	276	:	3,124,626
					3,134,830	277	:	3,120,571
					3,160,690			3,136,830
					3,134,832	278	:	3,150,212
					3,152,202	284	:	3,157,719
					3,163,691	285	:	3,143,583
					3,118,011	286	:	3,155,755
					3,154,610	288	:	3,140,326
					3,139,466			3,157,719
					3,144,993	289	:	3,147,323
					3,162,703			3,161,707
					3,121,130			3,124,626
					3,121,763			3,124,626
					3,125,655			3,150,212
					3,125,620			3,150,212
					3,126,433	292	:	3,121,762
					3,125,811	293	:	3,140,326
					3,150,217			3,158,669
					3,153,108	296	:	3,147,323
					3,153,686	299	:	3,122,550
					3,154,611			3,154,614
					3,126,434	301	:	3,135,505
					3,155,756			3,148,234
					3,156,750	302	:	3,150,212
					3,121,764	310	:	3,163,689
					3,121,765			3,161,707
					3,124,629	314	:	3,128,959
					3,129,273	315	:	3,127,458
					3,133,135	318	:	3,150,212

319	: 3,154,619	1	: 3,134,586	302	: 3,145,986	31	: 3,145,989	68	: 3,136,544	81	: 3,117,782	101	: 3,127,173
320	: 3,159,699		: 3,135,506		: 3,156,460	40	: 3,122,361		: 3,143,344	84	: 3,118,668		: 3,130,971
321	: 3,123,656		: 3,137,487	103	: 3,137,489	41	: 3,160,400		: 3,147,971	85	: Re. 25,677	102	: 3,118,674
	: 3,125,621		: 3,140,080	104	: 3,145,987	52	: 3,147,969		: 3,156,464		: 3,130,969		: 3,163,418
	: 3,159,700		: 3,140,081	105	: 3,147,968		: 3,143,342		: 3,159,398		: 3,140,870	2	: 3,128,096
324	: 3,148,236		: 3,143,337	107	: 3,131,924	54	: 3,128,092		: 3,162,437		: 3,145,024	2	: 3,128,097
325	: 3,127,461		: 3,143,338		: 3,143,339		: 3,130,966	71	: 3,119,609	Class 273		2	: 3,151,866
328	: 3,132,197		: 3,145,020	110	: 3,117,775	56	: 3,147,007		: 3,124,352	1	: 3,118,669	4	: 3,122,367
	: 3,145,244		: 3,145,083		: 3,118,661	57	: 3,122,362		: 3,137,499		: 3,134,593	104	: 3,119,619
	: 3,159,701		: 3,146,999		: 3,127,159		: 3,162,434		: 3,139,278		: 3,136,545	105	: 3,134,594
329	: 3,140,332		: 3,147,961		: 3,137,490		: 3,122,363		: 3,154,307		: 3,162,438		: 3,145,992
	: 3,146,287		: 3,147,962		: 3,146,999	58	: 3,122,363		: 3,137,494		: 3,162,439		: 3,163,419
	: 3,163,693		: 3,148,869	111	: 3,129,935		: 3,127,164		: 3,137,494		: 3,162,439		: 3,163,419
330	: 3,141,915		: 3,148,870		: 3,140,086		: 3,142,248	72	: 3,147,010		: 3,158,370	2	: 3,140,874
331	: 3,121,768		: 3,149,828				: 3,152,801	73	: 3,122,364		: 3,159,400	2	: 3,163,420
	: 3,131,242		: 3,150,866	Class 268			: 3,158,366	74	: 3,123,354	5	: 3,157,502	3	: 3,135,511
334	: 3,131,243		: 3,151,853		: 3,123,344	61	: 3,116,920		: 3,138,374		: 3,137,503		: 3,143,346
336	: 3,137,751		: 3,152,797	3	: 3,141,662		: 3,124,348		: 3,141,667		: 3,151,866	106	: 3,163,421
339	: 3,154,620		: 3,152,798		: 3,145,988		: 3,133,732		: 3,155,387		: 3,140,874		: 3,138,382
340	: 3,134,834		: 3,155,381		: 3,154,302		: 3,148,874	79	: 3,148,878	19	: 3,131,933	5	: 3,138,383
345	: 3,154,732		: 3,156,457		: 3,157,392		: 3,134,587	86	: 3,117,778	25	: 3,126,203	5	: 3,147,011
349	: 3,153,688		: 3,159,388	18	: 3,131,922	62	: 3,127,165		: 3,135,509	26	: 3,118,670	5	: 3,147,976
			: 3,161,407	30	: 3,131,923	68	: 3,151,858		: 3,150,874		: 3,122,365	5	: 3,151,875
Class 266			: 3,161,408		: 3,151,858		: 3,157,399		: 3,160,413		: 3,136,546	5	: 3,161,414
2	: 3,128,323		: 3,163,409	33	: 3,134,537		: 3,134,537	87	: 3,118,664		: 3,122,366		: 3,143,344
4	: 3,127,752		: 3,163,410		: 3,147,000		: 3,136,543		: 3,131,932		: 3,139,282	108	: 3,138,384
5	: 3,130,259	2	: 3,140,082	34	: 3,129,936		: 3,141,666		: 3,148,879		: 3,152,803		: 3,145,991
	: 3,150,224	3	: 3,140,866	39	: 3,136,538		: 3,163,413		: 3,149,000		: 3,157,399	109	: 3,118,676
	: 3,154,621	4	: 3,150,867	46	: 3,137,491	77	: 3,144,249		: 3,149,836	30	: 3,117,783	3	: 3,135,512
	: 3,163,694		: 3,155,382	50	: 3,131,925		: 3,120,385		: 3,124,350	32	: 3,120,388		: 3,137,506
6	: 3,149,189		: 3,157,393	58	: 3,154,303		: 3,124,359	89	: 3,118,665		: 3,136,547	110	: 3,135,513
	: 3,151,197		: 3,160,406	59	: 3,147,001		: 3,150,872		: 3,159,399		: 3,137,506		: 3,137,506
10	: 3,149,190		: 3,163,411	62	: 3,150,869	80	: 3,148,875			33	: 3,141,671		: 3,157,401
	: 3,159,702		: 3,163,412	63	: 3,127,160		: 3,117,777	Class 272		42	: 3,118,671	115	: 3,134,595
	: 3,141,916	11	: 3,141,659	65	: 3,125,332		: 3,145,021	1	: 3,116,925	43	: 3,117,784	118	: 3,158,373
	: 3,149,191		: 3,139,272	74	: 3,119,608		: 3,160,410				: 3,122,366	121	: 3,120,390
19	: 3,159,703		: 3,140,083	108	: 3,139,276		: 3,147,009				: 3,123,356		: 3,122,368
20	: 3,154,622		: 3,157,394	109	: 3,125,333		: 3,147,009				: 3,123,356		: 3,122,368
21	: 3,131,244		: 3,163,412	121	: 3,141,663			Class 271			: 3,124,354	123	: 3,119,620
	: 3,149,192	16	: 3,123,348	124	: 3,125,334			2	: 3,144,250		: 3,132,862		: 3,136,548
	: 3,123,657	19	: 3,157,395	126	: 3,141,664				: 3,153,533		: 3,145,990	126	: 3,135,514
	: 3,139,471	20	: 3,135,507		: 3,151,859			4	: 3,119,610		: 3,138,378		: 3,147,977
	: 3,149,193		: 3,139,275		: 3,159,392				: 3,126,202		: 3,138,379		: 3,156,467
	: 3,153,109	21	: 3,120,952	127	: 3,143,340	3	: 3,116,922		: 3,129,001		: 3,142,486		: 3,132,864
24	: 3,117,175		: 3,121,560	327	: 3,127,147		: 3,140,088		: 3,139,280		: 3,153,538	127	: 3,132,864
	: 3,147,327		: 3,135,508			4	: 3,160,411	20	: 3,117,779	47	: 3,119,615	129	: 3,149,840
	: 3,158,671	22	: 3,158,365			5	: 3,132,856		: 3,152,802		: 3,125,342		: 3,163,422
25	: 3,151,198	30	: 3,147,963	Class 269						49	: 3,127,172	130	: 3,117,789
	: 3,139,472		: 3,154,300	2	: 3,129,000					52	: 3,117,785		: 3,124,357
30	: 3,151,199	33	: 3,128,087	7	: 3,128,090	6	: 3,137,495			54	: 3,117,786		: 3,126,205
31	: 3,145,586	34	: 3,149,829	9	: 3,123,352	10	: 3,145,588				: 3,119,616		: 3,127,174
32	: 3,130,251		: 3,162,432	21	: 3,116,919		: 3,149,833				: 3,120,956		: 3,144,252
33	: 3,123,658	35	: 3,118,659	22	: 3,140,087	11	: 3,127,166	32	: 3,125,339		: 3,124,355		: 3,149,983
	: 3,141,055		: 3,160,407				: 3,137,496		: 3,127,169		: 3,149,612		: 3,149,842
	: 3,149,194	47	: 3,145,984	25	: 3,131,926		: 3,148,876		: 3,127,170		: 3,140,872		: 3,149,842
34	: 3,131,245	50	: 3,145,984	30	: 3,147,002	18	: 3,137,497		: 3,141,669		: 3,152,802	131	: 3,121,566
	: 3,136,834	52	: 3,144,246	25	: 3,145,022		: 3,151,863		: 3,152,802		: 3,149,839		: 3,130,972
	: 3,137,753		: 3,150,868	40	: 3,137,492	26	: 3,126,200		: 3,153,536		: 3,156,466		: 3,155,391
	: 3,145,245	54	: 3,117,772	43	: 3,151,860		: 3,139,280	36	: 3,140,092		: 3,158,371	132	: 3,127,175
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3,271,113	3,288,978	159 : 3,288,978	125 : 3,194,478	129 : 3,138,481	161 : 3,146,426	161 : 3,129,413	161 : 3,129,413
3,273,114	3,290,979	160 : 3,290,979	126 : 3,195,479	130 : 3,138,482	162 : 3,146,427	162 : 3,129,414	162 : 3,129,414
3,275,115	3,292,980	161 : 3,292,980	127 : 3,196,480	131 : 3,138,483	163 : 3,146,428	163 : 3,129,415	163 : 3,129,415
3,277,116	3,294,981	162 : 3,294,981	128 : 3,197,481	132 : 3,138,484	164 : 3,146,429	164 : 3,129,416	164 : 3,129,416
3,279,117	3,296,982	163 : 3,296,982	129 : 3,198,482	133 : 3,138,485	165 : 3,146,430	165 : 3,129,417	165 : 3,129,417
3,281,118	3,298,983	164 : 3,298,983	130 : 3,199,483	134 : 3,138,486	166 : 3,146,431	166 : 3,129,418	166 : 3,129,418
3,283,119	3,300,984	165 : 3,300,984	131 : 3,200,484	135 : 3,138,487	167 : 3,146,432	167 : 3,129,419	167 : 3,129,419
3,285,120	3,302,985	166 : 3,302,985	132 : 3,201,485	136 : 3,138,488	168 : 3,146,433	168 : 3,129,420	168 : 3,129,420
3,287,121	3,304,986	167 : 3,304,986	133 : 3,202,486	137 : 3,138,489	169 : 3,146,434	169 : 3,129,421	169 : 3,129,421
3,289,122	3,306,987	168 : 3,306,987	134 : 3,203,487	138 : 3,138,490	170 : 3,146,435	170 :	

Class 312—Con.		62 : 3,128,405	130 : 3,133,223	69 : 3,133,225	27 : 3,144,580	206 : 3,153,745	36 : 3,144,586
209 : 3,128,136	63 : 3,121,816	141 : 3,119,944	69 : 3,133,225	27 : 3,144,580	206 : 3,153,745	36 : 3,144,586	123 : 3,150,291
3,138,415	3,136,908	3,144,576	74 : 3,131,325	3,147,397	3,145,323	3,157,825	158 : 3,123,748
3,154,358	3,137,801	3,139,551	75 : 3,129,352	3,149,260	3,150,285	3,160,788	234 : 3,122,685
3,146,044	3,139,551	3,123,733	101 : 3,119,948	3,153,174	3,150,286	3,161,803	21 : 3,140,433
3,125,388	3,155,857	3,130,343		3,157,817	3,161,803	3,162,789	23 : Re 25,509
3,156,509	3,155,858	3,132,277	Class 315	3,157,817	3,161,803	3,162,789	28 : Re 25,509
3,135,569	3,156,842	3,140,415	3 : 3,148,302	3,157,817	3,161,803	3,162,789	162 : 3,119,054
3,150,902	3,120,623	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	30 : 3,133,239
3,123,417	3,128,406	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	22 : 3,128,423
3,152,847	3,136,909	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	36 : 3,123,758
3,131,981	3,144,575	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	39 : 3,130,359
3,129,040	3,149,258	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,131,344
3,141,713	3,137,802	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,133,242
3,162,495	3,137,803	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,138,752
3,159,439	3,133,220	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,140,438
3,162,496	3,141,105	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,146,392
3,146,045	3,155,859	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,150,310
3,163,479	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,151,289
3,146,046	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,152,299
3,149,892	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,153,187
3,128,137	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,158,801
3,129,041	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,160,807
3,160,452	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,160,808
3,160,453	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,163,814
3,147,052	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,152,848	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,131,010	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,126,238	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,126,239	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,129,042	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,162,497	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,148,924	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,150,903	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,159,440	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,132,010	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,131,011	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,159,441	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,129,411	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,134,630	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,151,921	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,150,904	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,150,905	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,124,400	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,152,389	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,135,570	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,117,828	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,123,018	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,146,047	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,163,480	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,120,412	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,120,984	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,122,402	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,140,905	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,140,136	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,146,048	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,148,007	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,162,498	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,125,390	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,155,443	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,157,447	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,120,413	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,155,444	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,123,419	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,139,313	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,124,401	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,131,982	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,119,643	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,129,988	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,119,644	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,131,009	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,138,416	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,141,714	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
3,124,402	3,160,773	3,153,169	5 : 3,153,742	3,157,817	3,161,803	3,162,789	3,162,799
Class 313		7 : 3,118,077	109 : 3,152,277	3,155,865	169 : 3,121,824	3,141,110	153 : 3,133,233
3,141,986	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	154 : 3,118,091
3,143,638	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	155 : 3,128,417
3,130,338	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	156 : 3,128,417
3,141,987	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	157 : 3,128,417
3,153,738	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	158 : 3,128,417
3,118,078	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	159 : 3,128,417
3,122,669	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	160 : 3,128,417
3,119,943	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	161 : 3,128,417
3,152,276	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	162 : 3,128,417
3,129,351	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	163 : 3,128,417
3,130,339	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	164 : 3,128,417
3,148,296	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	165 : 3,128,417
3,132,273	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	166 : 3,128,417
3,156,841	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	167 : 3,128,417
3,133,219	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	168 : 3,128,417
3,136,907	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	169 : 3,128,417
3,124,710	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	170 : 3,128,417
3,138,729	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	171 : 3,128,417
3,143,679	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	172 : 3,128,417
3,135,889	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	173 : 3,128,417
3,149,257	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	174 : 3,128,417
3,124,711	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	175 : 3,128,417
3,145,319	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	176 : 3,128,417
3,146,366	3,155,861	3,157,813	3,155,865	3,141,109	3,141,110	3,141,111	177 : 3,128,417

Class 324—Cont.	60 : 3,142,015	157 : 3,145,339	363 : 3,122,704	63 : 3,162,816	2 : 3,134,077	102 : 3,134,080
5 : 3,152,756	61 : 3,142,016	158 : 3,131,786	364 : 3,130,368	65 : 3,124,754	3 : 3,121,201	109 : 3,131,361
5 : 3,157,837	3,155,899	3,134,073	3,130,369	3,139,585	3,123,777	111 : 3,135,927
5 : 3,158,802	3,155,900	3,137,815	3,144,610	3,160,818	3,134,078	119 : 3,132,307
5 : 3,158,803	3,155,901	3,144,604	3,147,439	3,119,968	3,163,827	121 : 3,132,307
1 : Re. 25,557	3,155,902	3,150,319	3,153,761	3,161,831	3,127,569	122 : 3,122,713
3,121,840	62 : 3,134,942	3,147,431	3,133,252	3,119,069	3,134,751	123 : 3,119,970
3,124,742	3,150,315	3,144,606	3,133,252	3,163,825	3,131,358	3,129,388
3,125,717	63 : 3,160,810	3,144,607	3,133,252	3,134,946	3,144,615	3,138,766
3,134,941	65 : 3,141,129	3,144,607	3,133,252	3,160,819	3,127,564	3,150,327
3,136,942	66 : 3,147,432	3,144,607	3,133,252	3,133,252	3,133,252	3,159,796
3,141,126	68 : Re. 25,658	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,141,127	3,149,277	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,151,291	69 : 3,148,327	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,163,816	70 : 3,119,960	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
4 : 3,123,766	71 : 3,142,796	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,127,557	3,147,433	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
6 : 3,119,061	72 : 3,156,866	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,123,767	73 : 3,142,797	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,147,429	74 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,150,314	75 : 3,118,110	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
7 : 3,126,510	76 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,136,943	77 : 3,118,110	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,149,278	78 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
10 : 3,132,298	79 : 3,119,961	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,134,969	80 : 3,123,768	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,162,806	81 : 3,124,745	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
13 : 3,151,292	82 : 3,123,769	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
15 : 3,158,804	83 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
20 : 3,153,190	84 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
21 : 3,135,913	85 : 3,153,192	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
28 : 3,128,426	86 : 3,156,867	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,161,823	87 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
29 : 3,161,823	88 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,125,718	89 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
30 : 3,124,743	90 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,131,346	91 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,134,070	92 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,151,293	93 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,159,783	94 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,129,126	95 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
33 : 3,124,744	96 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,126,511	97 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,126,512	98 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,128,427	99 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,144,609	100 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,149,279	101 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,160,809	102 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,125,719	103 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,127,558	104 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,130,363	105 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,129,299	106 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,139,578	107 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,140,441	108 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,152,302	109 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,153,191	110 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,156,862	111 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,158,805	112 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,159,784	113 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,161,824	114 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,146,395	115 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,146,396	116 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,135,914	117 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,152,303	118 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,127,559	119 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,133,244	120 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,136,944	121 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,149,280	122 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,159,785	123 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
45 : 3,118,108	124 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,125,720	125 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,131,347	126 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,141,128	127 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,153,757	128 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,158,806	129 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,155,897	130 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,163,817	131 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,145,337	132 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,134,071	133 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,135,915	134 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,147,430	135 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,156,863	136 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,156,864	137 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,153,758	138 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,127,560	139 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,139,579	140 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,163,818	141 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,119,063	142 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,133,245	143 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,136,945	144 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,145,338	145 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,156,865	146 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,161,825	147 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,162,807	148 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,117,276	149 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,133,246	150 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,136,946	151 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,144,601	152 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,155,898	153 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,120,638	154 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
3,135,916	155 : 3,142,798	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308
	156 : 3,150,318	3,144,607	3,133,252	3,133,252	3,133,252	3,132,308

111 : 3,158,822	7 : 3,155,923	83 : 3,121,205	134 : 3,146,418	28 : 3,158,828	332 : 3,134,087	75 : 3,123,422
3,160,828	3,155,924	3,125,734	3,155,931	31 : 3,148,349		3,145,067
112 : 3,156,876	3,155,925	3,158,825	135 : 3,123,785	32 : 3,131,374	Class 339	3,149,896
3,159,799	3,157,844	3,159,803	3,128,044	3,134,083		3,163,481
113 : 3,117,289	8 : 3,143,715	3,161,840	136 : 3,119,975	3,139,600	2 : 3,129,989	80 : 3,161,450
3,118,115	3,146,409	3,163,835	3,129,397	3,149,299	4 : 3,132,911	82 : 3,159,446
3,119,972	9 : 3,121,847	3,135,935	3,129,398	3,161,845	5 : 3,123,420	88 : 3,154,360
3,127,575	3,123,781	3,121,206	3,135,937	35 : 3,121,853	8 : 3,136,590	89 : 3,124,406
3,127,576	3,124,768	3,134,951	3,138,772	37 : 3,157,851	12 : 3,123,421	90 : 3,147,057
3,133,256	3,140,456	3,136,965	3,153,211	40 : 3,123,791	8 : 3,118,713	91 : 3,152,850
3,133,257	3,150,333	3,157,847	137 : 3,160,841	3,126,519	3,131,012	91 : 3,121,599
3,134,948	10 : 3,121,848	3,158,824	149 : 3,128,442	3,145,359	14 : 3,118,714	93 : 3,133,777
3,142,025	3,125,731	96 : 3,151,925	3,136,967	3,136,960	3,120,414	94 : 3,160,052
3,144,621	3,136,964	3,163,836	3,153,212	3,145,360	3,126,239	94 : 3,150,908
3,145,348	13 : 3,147,450	97 : 3,121,850	3,160,842	42 : 3,136,970	3,128,138	94 : 3,160,457
3,146,406	17 : 3,160,832	3,138,768	150 : 3,157,849	46 : 3,145,361	3,131,013	94 : 3,161,451
3,149,291	3,160,833	3,143,717	155 : 3,123,786	62 : 3,119,087	3,134,631	92 : 3,160,456
3,150,329	21 : 3,146,410	3,155,930	3,143,720	66 : 3,134,954	3,144,287	93 : 3,120,417
3,152,306	22 : 3,157,845	98 : 3,119,974	3,155,932	67 : 3,135,940	3,148,926	94 : 3,157,450
3,154,752	22 : 3,121,204	3,121,207	160 : 3,128,443	69 : 3,125,737	3,148,927	95 : 3,122,406
3,156,877	3,147,451	3,123,782	165 : 3,135,938	69 : 3,125,737	3,149,893	3,125,932
3,157,842	2 : 3,158,823	3,127,579	172 : 3,132,318	3,125,738	3,159,443	3,129,047
3,159,800	23 : 3,135,930	3,131,369	173 : 3,147,456	3,160,843	15 : 3,127,227	3,129,984
3,160,829	24 : 3,146,411	3,132,314	174 : 3,160,843	85 : 3,162,832	Re: 25,591	3,138,421
3,160,830	1 : 3,134,082	3,138,769	175 : 3,154,757	89 : 3,162,833	3,127,228	3,152,851
3,161,837	1 : 3,140,457	3,138,770	178 : 3,150,340	99 : 3,125,739	3,129,990	96 : 3,158,420
115 : 3,153,205	2 : 3,121,849	3,149,295	179 : 3,152,312	100 : 3,123,792	3,129,990	97 : 3,117,829
116 : 3,152,307	2 : 3,125,732	3,156,881	180 : 3,120,649	103 : 3,121,209	3,129,991	3,128,141
3,152,308	2 : 3,128,439	3,156,882	182 : 3,144,628	106 : 3,159,805	3,133,773	3,129,048
3,163,831	2 : 3,131,366		187 : 3,145,358	108 : 3,118,123	3,133,774	3,129,995
117 : 3,119,973	2 : 3,135,931	Class 334	192 : 3,117,294	115 : 3,150,804	3,136,591	3,131,015
118 : 3,155,922	2 : 3,142,026	7 : 3,163,837	192 : 3,117,294	129 : 3,127,582	3,138,417	3,132,913
119 : 3,124,765	2 : 3,145,353	15 : 3,117,293	192 : 3,117,294	143 : Re: 25,674	3,140,137	3,140,137
135 : 3,144,622	3 : 3,150,334	21 : 3,136,966	3,131,372	3,119,088	3,140,907	3,140,138
136 : 3,146,407	26 : 3,129,393	15 : 3,159,782	3,146,410	3,119,976	3,144,288	3,146,053
144 : 3,138,767	27 : 3,129,394	22 : 3,131,370	3,153,213	3,139,601	3,147,054	3,147,058
144 : 3,141,142	29 : 3,135,932	24 : 3,161,841	3,163,839	3,140,458	3,121,210	3,150,909
152 : 3,140,453	3 : 3,147,452	40 : 3,146,416	3,163,840	149 : 3,156,888	3,158,418	3,154,362
161 : 3,118,116	30 : 3,127,578	43 : 3,154,755	195 : 3,140,458	150 : Re: 25,591	3,160,455	3,156,514
173 : 3,139,594	3 : 3,129,395	51 : 3,144,626	197 : 3,156,885	3,124,773	18 : 3,129,044	3,163,482
178 : 3,135,929	3,133,258	51 : 3,144,626	199 : 3,135,939	151 : 3,156,889	3,129,045	3,163,483
3,140,454	3,141,141	51 : 3,144,626	205 : 3,138,773	154 : 3,123,793	3,133,775	98 : 3,118,715
3,144,623	3,145,354	56 : 3,156,883	207 : 3,142,030	3,140,459	3,137,534	3,142,524
179 : 3,155,922	3,145,355	68 : 3,135,936	208 : 3,162,830	158 : 3,151,307	3,146,050	3,162,501
183 : 3,150,330	3,146,412	3,148,343	209 : 3,149,297	162 : 3,124,774	3,151,923	99 : 3,127,229
	3,150,335	74 : 3,147,453	210 : 3,138,774	3,129,400	3,152,844	3,129,315
Class 332	3,155,926		211 : 3,154,758	3,134,084	3,158,419	3,148,009
1 : 3,146,408	3,160,834	Class 336	212 : 3,129,399	3,154,759	3,162,500	3,151,926
5 : 3,149,292	31 : 3,118,118	20 : 3,147,454	3,146,420	163 : 3,124,775	19 : 3,140,908	3,154,363
7 : 3,150,331	3,120,646	30 : 3,118,121	213 : 3,153,214	172 : 3,123,794	22 : 3,124,403	101 : 3,157,451
9 : 3,126,516	3,131,367	30 : 3,126,518	216 : 3,157,850	172 : 3,123,795	3,126,240	103 : 3,121,600
11 : 3,141,143	3,132,312	3,128,441	217 : 3,153,215	3,161,847	3,126,241	3,125,933
3,127,554	3,139,597	3,128,441	223 : 3,137,831	173 : 3,121,854	3,148,008	3,137,536
3,131,363	3,146,413	3,132,315	223 : 3,137,831	174 : 3,119,089	26 : 3,128,139	3,141,718
12 : 3,131,364	3,153,767	3,143,718	3,153,216	3,123,796	28 : 3,128,140	3,144,291
3,136,960	3,161,839	3,143,719	229 : 3,123,787	3,124,776	31 : 3,120,985	108 : 3,148,928
3,139,595	3,163,832	3,151,303	234 : 3,137,832	3,124,777	3,131,994	109 : 3,132,914
3,147,449	3,132,313	3,152,310		3,127,583	3,151,924	111 : 3,142,525
3,150,332	3,155,927	3,153,210	Class 338	3,127,583	34 : 3,124,404	111 : 3,125,394
15 : 3,136,961	3,118,119	3,158,826	2 : 3,124,779	3,132,321	35 : 3,129,046	3,126,243
3,149,293	3,150,336	3,160,836	2 : 3,134,953	3,150,343	36 : 3,147,055	112 : 3,152,852
16 : 3,129,391	3,126,517	55 : 3,123,783	3,138,775	175 : 3,124,778	3,147,056	113 : 3,146,054
3,145,349	3,145,356	3,144,627	3,150,341	176 : 3,139,602	3,129,992	118 : 3,127,230
17 : 3,148,342	3,146,414	3,163,838	3,161,844	180 : 3,124,779	3,131,985	126 : 3,120,418
19 : 3,124,766	3,129,396	57 : 3,137,829	3,158,827	3,124,780	38 : 3,131,014	142 : 3,146,226
3,156,878	3,133,259	3,137,830	4 : 3,122,717	3,134,085	39 : 3,154,359	3,166,960
20 : 3,145,350	3,148,344	58 : 3,123,784	3,123,788	3,134,955	45 : 3,119,645	3,144,292
22 : 3,118,117	3,149,294	3,151,304	3,123,788	3,135,941	3,120,416	131 : 3,161,452
26 : 3,154,753	3,153,207	61 : 3,142,809	3,139,598	3,136,971	3,120,986	144 : 3,162,502
29 : 3,127,577	3,131,368	3,150,339	3,160,844	3,140,300	3,122,403	146 : 3,131,986
3,153,206	3,135,933	3,160,837	5 : 3,124,779	3,158,829	3,150,906	147 : 3,160,458
30 : 3,134,949	3,160,837	69 : 3,146,417	3,130,382	3,161,848	3,156,511	149 : 3,119,647
3,139,596	3,142,027	75 : 3,142,810	3,130,383	3,138,777	3,156,512	3,129,049
3,159,801	3,146,415	3,161,842	3,131,373	3,161,849	3,156,513	3,155,455
31 : 3,157,843	73 : 3,130,380	3,162,839	3,151,306	3,151,306	3,159,444	159 : 3,156,515
37 : 3,159,800	3,137,828	83 : 3,162,829	6 : 3,132,319	184 : 3,151,308	47 : 3,146,051	164 : 3,131,987
39 : 3,145,351	3,142,028	84 : 3,130,381	3,137,833	190 : 3,153,218	49 : 3,129,993	168 : 3,120,419
43 : 3,122,715	3,142,808	3,142,029	3,137,834	195 : 3,161,850	3,127,582	176 : Re: 25,591
45 : 3,117,290	3,143,716	3,149,296	13 : 3,123,789	196 : 3,134,086	3,157,448	3,118,716
47 : 3,119,079	3,144,624	3,160,839	3,124,771	201 : 3,142,813	50 : 3,138,418	3,120,988
3,124,767	3,153,208	92 : 3,119,084	3,148,348	202 : 3,120,650	52 : 3,122,404	3,125,935
51 : 3,143,714	3,153,209	3,125,735	3,153,217	214 : 3,152,313	56 : 3,144,289	3,131,016
52 : 3,119,080	3,153,768	3,138,771	3,155,933	219 : 3,142,031	59 : 3,138,419	3,137,537
3,121,203	3,156,880	94 : 3,132,316	3,155,934	237 : 3,155,935	3,143,384	3,141,720
	75 : 3,122,716	3,145,357	3,156,887	269 : 3,151,309	3,120,987	3,146,055
Class 333	3,155,928	96 : 3,119,085	18 : 3,119,086	273 : 3,122,718	60 : 3,120,987	3,146,055
1 : 3,117,291	79 : 3,117,292	3,148,346	3,121,208	3,129,401	3,121,598	3,148,929
1 : 3,136,962	3,125,733	3,160,840	3,139,599	3,134,956	3,124,405	3,149,897
1 : 3,162,826	3,141,145	3,161,843	19 : 3,117,295	3,136,972	3,125,391	3,158,827
2 : 3,161,838	3,163,833	100 : 3,125,736	3,117,296	3,136,973	61 : 3,137,535	3,154,364
3,162,827	3,163,834	105 : 3,134,952	3,117,297	3,153,219	3,138,419	3,154,365
6 : 3,140,455	80 : 3,152,309	110 : 3,151,305	3,121,852	292 : 3,163,841	3,141,716	3,155,446
3,156,879	3,160,835	123 : 3,148,347	20 : 3,142,811	303 : 3,145,362	3,150,907	3,157,452
3,162,828	81 : 3,119,081	130 : 3,148,347	22 : 3,162,831	308 : 3,142,814	3,153,561	3,158,421
3,139,392	3,134,950	130 : 3,121,851	3,124,772	309 : 3,140,460	62 : 3,126,242	3,159,447
7 : 3,129,379	3,135,934	131 : 3,132,311	3,149,298	312 : 3,117,298	64 : 3,132,912	3,160,459
3,130,379	3,144,625	132 : 3,152,311	28 : 3,123,790	317 : 3,118,124	66 : 3,133,776	3,160,460
3,131,365	3,155,929	133 : 3,127,580	3,132,320	318 : 3,119,977	3,136,842	177 : 3,161,453
1,132,311	3,157,846	136 : 3,147,455	3,138,776	323 : 3,156,891	3,141,717	182 : 3,135,571
3,136,963	83 : 3,118,120	3,154,756	3,144,629	329 : 3,150,344	3,157,449	183 : 3,148,010
3,145,352	3,119,082	134 : 3,118,122	3,147,457	3,155,936	67 : 3,119,646	3,158,422
3,154,754	3,119,083		3,153,769		74 : 3,159,445	184 : 3,123,423

Class 339—Con.		2	3,144,630	26	3,152,316	146.3	3,157,855	172.5	3,158,840	174	3,126,531	174	3,157,865
			3,119,091		3,158,834	-	3,159,814	-	3,159,818		3,126,532		3,157,866
184	: 3,149,898		3,119,092	27	3,117,300	-	3,159,815	-	3,159,819		3,126,533		3,158,843
186	: 3,149,898		3,121,856		3,118,128	-	3,160,853	-	3,160,856		3,126,534		3,159,821
188	: 3,139,316		3,122,720		3,128,445	-	3,160,854	-	3,160,857		3,127,590		3,160,860
192	: 3,126,244		3,127,584		3,132,323	-	3,160,855	-	3,160,858		3,127,591		3,160,861
	3,140,139		3,129,402		3,134,088	147	3,117,303		3,161,854		3,128,452		3,160,862
193	: 3,131,988		3,135,942		3,157,853		3,120,652		3,161,855		3,129,411		3,160,863
	3,147,059		3,142,032		3,161,852		3,123,805		3,161,856		3,129,412		3,160,864
194	: 3,147,060		3,142,033	31	3,137,838		3,129,407		3,161,857		3,130,389		3,160,865
195	: 3,123,424		3,144,631		3,142,816		3,131,376		3,162,839		3,130,390		3,161,866
	3,134,632		3,145,363	34	3,152,317		3,134,090		3,162,840		3,130,391		3,161,867
196	: 3,148,930		3,145,365		3,158,835		3,135,946		3,162,841		3,131,381		3,161,868
198	: 3,123,425		3,145,366		3,120,651		3,137,840		3,162,842		3,131,382		3,161,869
	3,128,142		3,153,770	35	3,121,213		3,140,467	173	3,117,307		3,131,383		3,161,870
	3,135,572		3,158,830		3,128,446		3,144,636		3,118,133		3,132,327		3,161,871
	3,150,910		3,159,806	37	3,146,421		3,149,308		3,119,099		3,133,270		3,161,872
	3,154,366		3,160,836		3,150,349		3,152,319		3,119,098		3,133,271		3,161,873
	3,155,447		3,161,847	39	3,126,522		3,152,320		3,119,095		3,133,272		3,161,874
200	: 3,145,068	4	3,130,384	40	3,119,093		3,157,856		3,121,261		3,134,096		3,161,875
201	: 3,155,448	5	3,133,261		3,121,858		3,159,816		3,121,861		3,134,097		3,161,876
213	: 3,124,407		3,135,943		3,133,264		3,162,838		3,123,806		3,134,098		3,161,877
	3,158,423		3,141,632	41	3,149,306	149	3,127,589		3,124,784		3,134,099		3,161,878
217	: 3,122,407		3,145,365	42	3,144,633		3,128,450		3,126,524		3,134,098		3,161,879
	3,125,396		3,150,345	44	3,134,089		3,136,977		3,129,410		3,135,948		3,161,880
	3,134,633		3,158,831		3,141,149		3,154,761		3,130,388		3,138,981		3,161,881
	3,142,527	6	3,130,385	47	3,117,301		3,121,859		3,131,378		3,137,842		3,161,882
	3,143,985		3,155,937	50	3,117,302	150	3,122,722		3,131,379		3,137,843		3,161,883
	3,155,449		3,159,807	51	3,158,836		3,128,451		3,132,325		3,137,844		3,161,884
	3,156,516		3,160,848	52	3,129,809	163	3,122,723		3,134,095		3,137,845		3,161,885
	3,158,424		3,160,849	54	3,124,782		3,138,781		3,134,094		3,138,785		3,161,886
218	: 3,140,140	2	3,160,850		3,138,780		3,161,456		3,134,093		3,138,787		3,161,887
	3,145,069		3,161,851	53	3,121,214	164	3,134,961		3,137,841		3,138,788		3,161,888
	3,148,911		3,163,844	56	3,128,447		3,156,895		3,138,789		3,138,789		3,161,889
219	: 3,118,717	7	3,123,262	57	3,155,938	166	3,117,304		3,141,153		3,139,608		3,161,890
	3,118,717	8	3,121,211	58	3,162,835		3,118,130		3,142,821		3,139,609		3,161,891
220	: 3,124,408		3,126,520		3,162,836		3,119,095		3,142,822		3,139,610		3,161,892
	3,133,778		3,137,835	60	3,127,586		3,129,408		3,142,823		3,140,472		3,161,893
	3,152,853		3,142,034	71	3,157,854		3,142,819		3,143,725		3,140,473		3,161,894
	3,156,517		3,119,301	73	3,162,836		3,149,316		3,144,638		3,141,154		3,161,895
221	: 3,148,925		3,150,346	74	3,125,742		3,151,311		3,145,368		3,141,155		3,161,896
222	: 3,136,593	9	3,135,944	79	3,123,802	167	3,118,131		3,145,369		3,142,035		3,161,897
223	: 3,128,143		3,141,148	83	3,133,265		3,119,096		3,146,425		3,142,036		3,161,898
	3,157,454	10	3,137,836	84	3,142,038		3,156,896		3,147,461		3,142,047		3,161,899
226	: 3,118,719		3,139,603		3,143,722		3,158,837		3,148,354		3,142,048		3,161,900
	3,126,245		3,150,347	87	3,128,448	168	3,118,132		3,148,355		3,142,049		3,161,901
	3,152,853		3,158,837	107	3,161,853		3,119,097		3,149,310		3,142,050		3,161,902
242	: 3,133,779	12	3,121,212	114	3,153,773	171	3,117,305		3,149,311		3,142,051		3,161,903
244	: 3,144,293		3,129,403	119	3,153,774		3,119,098		3,151,313		3,142,052		3,161,904
246	: 3,141,722		3,129,403	146.1	3,119,094		3,128,451		3,151,314		3,142,053		3,161,905
	3,152,855	13	3,137,837		3,121,215		3,133,269		3,152,321		3,143,726		3,161,906
249	: 3,129,996		3,140,462		3,121,803		3,140,368		3,155,941		3,143,727		3,161,907
	3,140,909	15	3,128,444		3,121,783		3,159,817		3,156,901		3,143,728		3,161,908
251	: 3,123,426		3,138,778		3,128,449	172	3,142,037		3,157,857		3,144,639		3,161,909
	3,139,317		3,123,799		3,129,406		3,158,838		3,157,858		3,144,640		3,161,910
252	: 3,123,427		3,124,781		3,130,386		3,157,859		3,157,859		3,144,641		3,161,911
	3,141,723		3,127,585		3,134,060		3,157,860		3,158,840		3,144,642		3,161,912
	3,143,386		3,129,405		3,135,945		3,157,861		3,159,841		3,144,643		3,161,913
254	: 3,150,911		3,131,375		3,139,605		3,161,463		3,159,842		3,144,644		3,161,914
256	: 3,120,989		3,134,957		3,140,463		3,126,523		3,160,859		3,144,645		3,161,915
	3,123,428		3,141,148		3,149,316		3,129,409		3,161,860		3,144,646		3,161,916
	3,140,141		3,146,958		3,149,317		3,130,387		3,162,842		3,144,647		3,161,917
	3,141,724		3,149,318		3,151,150		3,131,377		3,163,851		3,144,648		3,161,918
	3,148,012		3,153,779		3,143,723		3,132,324		3,164,860		3,144,649		3,161,919
	3,157,455		3,147,458		3,144,634		3,133,271		3,165,869		3,144,650		3,161,920
	3,157,455		3,147,459		3,144,635		3,134,091		3,166,878		3,144,651		3,161,921
258	: 3,123,428		3,149,302		3,146,460		3,135,942		3,167,887		3,144,652		3,161,922
	3,129,050		3,152,311		3,149,303		3,136,978		3,168,896		3,144,653		3,161,923
	3,133,780		3,153,771		3,150,348		3,137,847		3,169,905		3,144,654		3,161,924
	3,139,318		3,154,780		3,151,310		3,138,782		3,170,914		3,144,655		3,161,925
	3,149,899		3,155,789		3,152,311		3,139,607		3,171,923		3,144,656		3,161,926
	3,152,856		3,156,790		3,153,221		3,139,608		3,172,932		3,144,657		3,161,927
	3,155,450		3,157,791		3,154,230		3,139,609		3,173,941		3,144,658		3,161,928
	3,158,425		3,158,842		3,155,239		3,139,610		3,174,950		3,144,659		3,161,929
	3,162,503		3,159,843		3,156,248		3,139,611		3,175,959		3,144,660		3,161,930
	3,163,484		3,159,844		3,157,257		3,139,612		3,176,968		3,144,661		3,161,931
259	: 3,120,990		3,160,845		3,158,266		3,139,613		3,177,977		3,144,662		3,161,932
	3,131,017		3,161,846		3,159,275		3,139,614		3,178,986		3,144,663		3,161,933
	3,152,857		3,162,847		3,160,284		3,139,615		3,179,995		3,144,664		3,161,934
265	: 3,121,601	16	3,148,351		3,161,293		3,139,616		3,180,004		3,144,665		3,161,935
266	: 3,118,720		3,149,312		3,162,302		3,139,617		3,181,013		3,144,666		3,161,936
	3,138,422		3,150,343		3,163,311		3,139,618		3,182,022		3,144,667		3,161,937
268	: 3,123,430		3,151,314		3,164,320		3,139,619		3,183,031		3,144,668		3,161,938
272	: 3,121,602		3,152,315		3,165,329		3,139,620		3,184,040		3,144,669		3,161,939
	3,125,397		3,153,316		3,166,338		3,139,621		3,185,049		3,144,670		3,161,940
	3,125,398		3,154,317		3,167,347		3,139,622		3,186,058		3,144,671		3,161,941
	3,133,781		3,155,318		3,168,356		3,139,623		3,187,067		3,144,672		3,161,942
	3,163,485		3,156,319		3,169,365		3,139,624		3,188,076		3,144,673		3,161,943
273	: 3,122,408		3,157,320		3,170,374		3,139,625		3,189,085		3,144,674		3,161,944
	3,134,423		3,158,321		3,171,383		3,139,626		3,190,094		3,144,675		3,161,945
	3,134,423		3,159,322		3,172,392		3,139,627		3,191,103		3,144,676		3,161,946
	3,134,423		3,160,323		3,173,401		3,139,628		3,192,112		3,144,677		3,161,947
	3,134,423		3,161,324		3,174,410								

Class 346 - Con.		74	74	78	108	121	137	139	139	140	141	145	179
46 : 3,158,428		3,126,547	3,156,918	3,129,998	3,146,057	3,132,917	3,137,539	3,147,063	3,152,859	3,163,490	3,167,885	3,152,331	3,161,885
49 : 3,124,410		3,126,548	3,156,919	3,157,456	3,154,370	3,137,539	3,160,466	3,147,063	3,152,859	3,163,490	3,167,885	3,152,331	3,161,885
50 : 3,138,425		3,127,613	3,157,879	3,150,913	3,158,432	3,147,063	3,160,466	3,147,063	3,152,859	3,163,490	3,167,885	3,152,331	3,161,885
52 : 3,158,429		3,129,428	3,159,840	3,155,453	3,159,999	3,147,063	3,160,466	3,147,063	3,152,859	3,163,490	3,167,885	3,152,331	3,161,885
59 : 3,120,420		3,130,411	3,161,882	3,133,785	3,130,000	3,140,145	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388
62 : 3,132,916		3,131,395	3,162,859	3,136,518	3,140,145	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388
68 : 3,154,368		3,137,003	3,162,860	3,138,427	3,142,528	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388
72 : 3,160,464		3,141,170	3,152,858	3,138,428	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388
74 : 3,119,110		3,142,065	3,145,071	3,138,429	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388	3,143,388
		3,144,650	3,161,457	3,149,902	3,148,016	3,148,016	3,148,016	3,148,016	3,148,016	3,148,016	3,148,016	3,148,016	3,148,016
		3,120,001	3,163,489	3,120,421	3,131,020	3,131,020	3,131,020	3,131,020	3,131,020	3,131,020	3,131,020	3,131,020	3,131,020
		3,120,662	3,145,386	3,120,992	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786
		3,121,872	3,146,455	3,120,991	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786	3,133,786
		3,121,873	3,148,372	3,131,019	3,136,596	3,136,596	3,136,596	3,136,596	3,136,596	3,136,596	3,136,596	3,136,596	3,136,596
		3,121,874	3,149,337	3,147,062	3,148,015	3,148,015	3,148,015	3,148,015	3,148,015	3,148,015	3,148,015	3,148,015	3,148,015
		3,124,803	3,153,240	3,149,901	3,150,914	3,150,914	3,150,914	3,150,914	3,150,914	3,150,914	3,150,914	3,150,914	3,150,914
		3,124,804	3,153,241	3,154,369	3,158,431	3,158,431	3,158,431	3,158,431	3,158,431	3,158,431	3,158,431	3,158,431	3,158,431
		3,125,759	3,155,977	3,158,430	3,161,458	3,161,458	3,161,458	3,161,458	3,161,458	3,161,458	3,161,458	3,161,458	3,161,458

Class 352

15 : 3,160,888	47 : 3,155,978	60 : 3,160,889	72 : 3,157,880	84 : 3,152,331	87 : 3,147,481	104 : 3,159,841	119 : 3,155,979	128 : 3,147,482	131 : 3,157,882	139 : 3,157,883	166 : 3,157,881	169 : 3,147,483	172 : 3,150,377	179 : 3,161,884
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1964

CLASSIFICATION OF DESIGNS

Class D1		3	: 197,760	2	: 197,459	7	: 199,894	1	: 198,446	3	: 199,240	1	: 198,372
			197,880		197,506	8	: 197,271		198,496		199,304		198,623
3		: 199,020	197,817		197,594		197,329		198,523		199,355		198,624
12		: 197,269	198,072		197,637		197,400		198,524		199,393		198,745
		197,456	198,430		197,638		197,401		198,525		199,431		198,843
		197,590	198,666		197,696		197,460		198,565		199,432		198,906
		197,591	198,667		197,697		197,553		198,620		199,433		198,907
		198,119	198,777		197,698		197,700		198,671		199,561		198,971
		198,154	198,831		197,699		197,701		198,672		199,619		199,058
		198,616	198,832		197,762		197,764		198,673		199,670		199,059
		198,663	199,175		197,763		197,883		198,674		199,671		199,308
		199,047	199,233		197,836		197,954		198,675		199,672		199,434
		199,231	199,234		197,881		197,955		198,676		199,673		199,621
		199,349	199,515		197,882		197,956		198,677	6	197,462		199,671
		199,725	199,516		197,952		197,957		198,678		197,597		199,787
		199,776	199,557		197,953		197,958		199,052		197,709		199,788
		199,777	199,663		198,074		197,959		199,239		197,887		199,802
		199,778	199,664		198,124		197,960		199,303		197,888	3	197,601
		199,834	199,726		198,200		197,961		199,353		198,125		198,020
			199,727		198,308		198,201		199,390		198,126		198,449
			199,728		198,361		198,363		199,486		198,261		198,782
			199,780		198,432		198,494		199,523		198,904	6	197,714
					198,433		198,522		199,524		198,970		198,312
3		: 197,550	199,836		198,434		198,669		199,525		199,120		198,625
		197,592	4		198,435		198,778		199,616		199,181	8	197,275
		197,835			197,948		198,836		199,617		199,305		197,769
		198,014			198,256		198,836		199,705		199,306		197,842
		198,071			198,257		198,437		199,051	14	199,618		198,211
		198,198			198,360		198,438		199,117		199,733		198,398
		198,400			199,517		198,439		199,180		199,785		198,678
		199,114			199,781		198,440		199,429		199,786		198,679
		199,298			199,782		198,441		199,430		199,806		198,783
		199,350			197,457		198,442		199,485		199,897		198,784
		199,383			197,440		198,443		199,612	6	198,447		199,672
		199,661			198,018		198,492		199,613		199,354	18	197,642
					198,122		198,493		199,614	7	198,076	11	197,645
					198,431		198,521		199,615		198,260	27	197,646
					198,491		198,562		199,666		198,838		197,843
9		: 197,397			199,021		198,563		199,667		199,024		197,844
		199,484			199,049		198,564		199,668		199,291		198,080
11		: 198,560			199,235		198,668		199,731		199,901		198,128
		199,891			199,729		198,742		199,732		199,738		198,212
							198,833		199,839	Class D14	30	197,869	198,450
13		: 198,359			198,834		198,835	9	: 197,702		197,840		198,451
		198,776			198,835		198,836		198,670	3	: 197,273		198,452
					198,837		198,838	10	: 198,202		197,330		199,435
					198,839		198,840				197,331		199,789
					198,841		198,842				197,402		
					198,843		198,844				197,549		
					198,845		198,846				197,510		
					198,847		198,848				197,511		
					198,849		198,850				197,512		
					198,851		198,852				197,513		
					198,853		198,854				197,514		
					198,855		198,856				197,515		
					198,857		198,858				197,516		
					198,859		198,860				197,517		
					198,861		198,862				197,518		
					198,863		198,864				197,519		
					198,865		198,866				197,520		
					198,867		198,868				197,521		
					198,869		198,870				197,522		
					198,871		198,872				197,523		
					198,873		198,874				197,524		
					198,875		198,876				197,525		
					198,877		198,878				197,526		
					198,879		198,880				197,527		
					198,881		198,882				197,528		
					198,883		198,884				197,529		
					198,885		198,886				197,530		
					198,887		198,888				197,531		
					198,889		198,890				197,532		
					198,891		198,892				197,533		
					198,893		198,894				197,534		
					198,895		198,896				197,535		
					198,897		198,898				197,536		
					198,899		198,900				197,537		
					198,901		198,902				197,538		
					198,903		198,904				197,539		
					198,905		198,906				197,540		
					198,907		198,908				197,541		
					198,909		198,910				197,542		
					198,911		198,912				197,543		
					198,913		198,914				197,544		
					198,915		198,916				197,545		
					198,917		198,918				197,546		
					198,919		198,920				197,547		
					198,921		198,922				197,548		
					198,923		198,924				197,549		
					198,925		198,926				197,550		
					198,927		198,928				197,551		
					198,929		198,930				197,552		
					198,931		198,932				197,553		
					198,933		198,934				197,554		
					198,935		198,936				197,555		
					198,937		198,938				197,556		
					198,939		198,940				197,557		
					198,941		198,942				197,558		
					198,943		198,944				197,559		
					198,945		198,946				197,560		
					198,947		198,948				197,561		
					198,949		198,950				197,562		
					198,951		198,952				197,563		
					198,953		198,954				197,564		
					198,955		198,956				197,565		
					198,957		198,958				197,566		
					198,959		198,960				197,567		
					198,961		198,962				197,568		
					198,963		198,964				197,569		
					198,965		198,966				197,570		
					198,967		198,968				197,571		
					198,969		198,970				197,572		
					198,971		198,972				197,573		
					198,973		198,974				197,574		
					198,975		198,976				197,575		
					198,977		198,978				197,576		
					198,979		198,980				197,577		
					198,981		198,982				197,578		
					198,983		198,984				197,579		
					198,985		198,986				197,580		
					198,987		198,988				197,581		
					198,989		198,990				197,582		
					198,991		198,992				197,583		
					198,993		198,994				197,584		
					198,995		198,996				197,585		
					198,997		198,998				197,586		
					198,999		199,000				197,587		
					199,001		199,002				197,588		
					199,003		199,004				197,589		
					199,005		199,006				197,590		
					199,007		199,008				197,591		
					199,009		199,010				197,592		
					199,011		199,012				197,593		
					199,013		199						

Class D17 - Con.		1 : 199,566	11 : 198,377	3 : 197,470	15 : 198,462	1 : 198,979
		198,843	198,378	197,720	198,576	199,133
			198,379	198,035	198,633	
			198,503	198,318	197,431	
			198,531	198,569	197,522	
				198,792	197,523	
				198,917	197,524	
				198,918	197,525	
				199,068	197,564	
				199,569	197,565	
				199,679	197,566	
				199,738	197,567	
				199,794	197,568	
				198,319	197,654	
				198,320	197,724	
				198,570	197,725	
				198,793	197,726	
				198,794	197,727	
				198,795	197,781	
				198,796	197,898	
				198,797	197,899	
				198,798	197,977	
				198,800	198,036	
				198,801	198,037	
				198,802	198,092	
				198,803	198,093	
				198,804	198,136	
				198,805	198,137	
				198,806	198,137	
				198,807	198,219	
				198,808	198,220	
				198,809	198,382	
				198,810	198,383	
				198,811	198,439	
				198,812	198,460	
				198,813	198,532	
				198,814	198,570	
				198,815	198,798	
				198,816	198,798	
				198,817	198,801	
				198,818	198,802	
				198,819	198,803	
				198,820	198,804	
				198,821	198,805	
				198,822	198,806	
				198,823	198,807	
				198,824	198,808	
				198,825	198,809	
				198,826	198,810	
				198,827	198,811	
				198,828	198,812	
				198,829	198,813	
				198,830	198,814	
				198,831	198,815	
				198,832	198,816	
				198,833	198,817	
				198,834	198,818	
				198,835	198,819	
				198,836	198,820	
				198,837	198,821	
				198,838	198,822	
				198,839	198,823	
				198,840	198,824	
				198,841	198,825	
				198,842	198,826	
				198,843	198,827	
				198,844	198,828	
				198,845	198,829	
				198,846	198,830	
				198,847	198,831	
				198,848	198,832	
				198,849	198,833	
				198,850	198,834	
				198,851	198,835	
				198,852	198,836	
				198,853	198,837	
				198,854	198,838	
				198,855	198,839	
				198,856	198,840	
				198,857	198,841	
				198,858	198,842	
				198,859	198,843	
				198,860	198,844	
				198,861	198,845	
				198,862	198,846	
				198,863	198,847	
				198,864	198,848	
				198,865	198,849	
				198,866	198,850	
				198,867	198,851	
				198,868	198,852	
				198,869	198,853	
				198,870	198,854	
				198,871	198,855	
				198,872	198,856	
				198,873	198,857	
				198,874	198,858	
				198,875	198,859	
				198,876	198,860	
				198,877	198,861	
				198,878	198,862	
				198,879	198,863	
				198,880	198,864	
				198,881	198,865	
				198,882	198,866	
				198,883	198,867	
				198,884	198,868	
				198,885	198,869	
				198,886	198,870	
				198,887	198,871	
				198,888	198,872	
				198,889	198,873	
				198,890	198,874	
				198,891	198,875	
				198,892	198,876	
				198,893	198,877	
				198,894	198,878	
				198,895	198,879	
				198,896	198,880	
				198,897	198,881	
				198,898	198,882	
				198,899	198,883	
				198,900	198,884	
				198,901	198,885	
				198,902	198,886	
				198,903	198,887	
				198,904	198,888	
				198,905	198,889	
				198,906	198,890	
				198,907	198,891	
				198,908	198,892	
				198,909	198,893	
				198,910	198,894	
				198,911	198,895	
				198,912	198,896	
				198,913	198,897	
				198,914	198,898	
				198,915	198,899	
				198,916	198,900	
				198,917	198,901	
				198,918	198,902	
				198,919	198,903	
				198,920	198,904	
				198,921	198,905	
				198,922	198,906	
				198,923	198,907	
				198,924	198,908	
				198,925	198,909	
				198,926	198,910	
				198,927	198,911	
				198,928	198,912	
				198,929	198,913	
				198,930	198,914	
				198,931	198,915	
				198,932	198,916	
				198,933	198,917	
				198,934	198,918	
				198,935	198,919	
				198,936	198,920	
				198,937	198,921	
				198,938	198,922	
				198,939	198,923	
				198,940	198,924	
				198,941	198,925	
				198,942	198,926	
				198,943	198,927	
				198,944	198,928	
				198,945	198,929	
				198,946	198,930	
				198,947	198,931	
				198,948	198,932	
				198,949	198,933	
				198,950	198,934	
				198,951	198,935	
				198,952	198,936	
				198,953	198,937	
				198,954	198,938	
				198,955	198,939	
				198,956	198,940	
				198,957	198,941	
				198,958	198,942	
				198,959	198,943	
				198,960	198,944	
				198,961	198,945	
				198,962	198,946	
				198,963	198,947	
				198,964	198,948	
				198,965	198,949	
				198,966	198,950	
				198,967	198,951	
				198,968	198,952	
				198,969	198,953	
				198,970	198,954	
				198,971	198,955	
				198,972	198,956	
				198,973	198,957	
				198,974	198,958	
				198,975	198,959	
				198,976	198,960	
				198,977	198,961	
				198,978	198,962	
				198,979	198,963	
				198,980	198,964	
				198,981	198,965	
				198,982	198,966	
				198,983	198,967	
				198,984	198,968	
				198,985	198,969	
				198,986	198,970	
				198,987	198,971	
				198,988	198,972	
				198,989	198,973	
				198,990	198,974	
				198,991	198,975	
				198,992	198,976	
				198,993	198,977	
				198,994	198,978	
				198,995	198,979	
				198,996	198,980	
				198,997	198,981	
				198,998	198,982	
				198,999	198,983	
				199,000	198,984	
				199,001	198,985	
				199,002	198,986	
				199,003	198,987	
				199,004	198,988	
				199,005	198,989	
				199,006	198,990	
				199,007	198,991	
				199,008	198,992	
				199,009	198,993	
				199,010	198,994	
				199,011	198,995	
				199,012	198,996	
				199,013	198,997	
				199,014	198,998	
				199,015	198,999	
				199,016	199,000	
				199,017	199,001	
				199,018	199,002	
				199,019	199,003	
				199,020	199,004	
				199,021	199,005	
				199,022	199,006	
				199,023	199,007	
				199,024	199,008	
				199,025	199,009	
				199,026	199,010	
				199,027	199,011	
				199,028	199,012	
				199,029	199,013	
				199,030	199,014	
				199,031	199,015	
				199,032	199,016	
				199,033	199,017	
				199,034	199,018	
				199,035	199,019	
				199,036	199,020	
				199,037	199,021	
				199,038	199,022	

Class D58—Con.		26 : 198,112	1 : 199,212	3 : 199,652	1 : 199,877	11 : 197,365	1 : 199,551
12.6 :	197,311	198,188	199,213	199,826	199,878	197,498	199,714
.6 :	197,388	198,235	199,285	199,938	199,941	197,499	199,715
.6 :	197,584	198,236	199,337	197,867		197,543	199,771
.6 :	197,924	198,237	199,338	197,931		198,351	199,772
.6 :	197,988	198,238	199,339	198,652		198,352	199,829
.6 :	198,290	198,344	199,375			198,422	199,830
.6 :	198,411	198,478	199,420			198,655	199,882
.6 :	198,476	198,479	199,465			198,891	199,883
.6 :	198,594	198,481	199,466			199,218	199,945
.6 :	198,764	198,482	199,467			199,293	197,452
.6 :	199,281	198,547	199,508			199,605	197,829
.6 :	199,335	198,548	199,598			199,709	197,874
.6 :	199,593	198,549	199,599			199,944	198,488
.6 :	199,701	198,550	199,649				197,773
.7 :	197,740	198,551	199,823				197,751
.7 :	198,595	198,723	199,871				198,115
.7 :	199,820	198,724	199,872				198,423
13 :	197,420	198,818					198,658
	197,443	198,819					198,659
	197,535	198,874					198,963
	197,631	198,875					198,964
	197,632	198,952					199,010
	197,633	198,953					199,110
	197,674	199,001					199,167
	197,675	199,155					199,219
	197,990	199,208					199,322
	197,991	199,209					199,366
	197,992	199,210					199,394
	198,056	199,284					197,395
	198,106	199,419					197,424
	198,144	199,547					197,826
	198,145	199,548					198,010
	198,146	199,595					198,011
	198,513	199,596					198,113
	198,545	199,597					198,354
	198,546	199,702					198,446
	198,908	199,703					198,555
	199,462	199,821					198,775
	199,463	199,822					198,824
	199,765	199,870					199,011
17 :	197,312						199,012
	197,313						199,013
	197,314						199,014
	197,388						199,015
	197,536						199,221
	197,537						199,345
	197,814						199,382
	197,925						199,716
	197,993						199,717
	197,994						199,884
	198,057						199,885
	198,291						199,886
	198,477						
	198,596						
	198,597						
	198,720						
	198,721						
	198,722						
	198,765						
	198,949						
	198,950						
	198,951						
	198,999						
	199,000						
	199,154						
	199,207						
	199,282						
	199,336						
	199,373						
	199,374						
	199,505						
	199,506						
	199,594						
	197,355						
	197,389						
	197,538						
	199,090						
	199,416						
	199,417						
	199,418						
	199,507						
	199,766						
	197,315						
	197,356						
	197,357						
	197,358						
	197,390						
	197,444						
	197,489						
	197,741						
	197,865						
	197,926						
	197,927						
	197,928						
	197,995						
	198,059						
	198,107						
	198,108						
	198,109						
	198,110						
	198,111						

3 :	197,453	5 :	198,662	Class D90	20 :	198,739	1 :	198,356	3 :	198,304	Class D92	
	197,690		199,296			199,017		198,357		198,427		
	197,832		199,833	3 :	199,479	199,425		198,358		198,428	1 :	198,559
	197,877		199,886		199,774	199,554		198,828		198,520		198,893
	198,013		199,950		199,775	199,658		199,018		198,615		199,173
	198,251			8 :	198,827	199,722		199,222		198,829	2 :	197,325
	198,300				199,384	199,723		199,223		198,830		199,953
	198,301	Class D88			199,480	199,889		199,224		198,966		199,954
	198,825				199,609			199,225		198,967		
5 :	197,545	3 :	198,518	11 :	198,197	Class D91		199,227		199,112	4 :	198,253
	197,546		199,720		199,171			199,228		199,113		198,118
	197,752		199,887	14 :	197,324			199,229		199,112	26 :	199,660
	197,753				197,754	1 :	199,226			199,297		
	197,939				199,951			199,385		199,426		
	198,116	Class D89		20 :	197,369			199,952		199,481	3 :	197,500
	198,302				197,370			197,834		199,482		197,549
	198,424	1 :	197,635		197,547			197,940	2 :	199,386		198,894
	198,425		198,070		197,548			197,941		197,455		198,895
	198,426		198,303		197,878			197,755		199,610		199,890
	198,489		198,826		198,519			198,117	3 :	197,756	4 :	197,501
	198,517		199,721		198,737			198,152		197,943		197,757
	198,661		199,888		198,738			198,153		198,252	4 :	199,556

CLASS TITLES ARRANGED IN CLASS NUMBER ORDER

Class	Title	Class	Title
	Plants	53	Package Making
1	Nailing, Stapling and Clip Clenching	54	Harness
2	Apparel	55	Gas Separation
3	Artificial Body Members	56	Harvesters
4	Baths, Closets, Sinks and Spittoons	57	Textiles, Spinning, Twisting and Twining
5	Beds	58	Horology
6	Bee Culture	59	Chain, Staple and Horseshoe Making
7	Compound Tools	60	Power Plants
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	61	Hydraulic and Earth Engineering
9	Boats, Buoys and Aquatic Devices	62	Refrigeration
10	Bolt, Nail, Nut, Rivet and Screw Making	63	Jewelry
11	Books, Making	64	Machine Elements, Shafting and Flexible Shaft Couplings
12	Boot and Shoe Making	65	Glass Manufacturing
13	Electric Furnaces	66	Textiles, Knitting
14	Bridges	67	Illuminating Burners
15	Brushing, Scrubbing and General Cleaning	68	Textiles, Fluid Treating Apparatus
16	Miscellaneous Hardware	69	Leather Manufactures
17	Butchering	70	Locks
18	Plastics	71	Chemistry, Fertilizers
19	Textiles, Fiber Preparation	72	No Class
20	Wooden Buildings	73	Measuring and Testing
21	Preserving, Disinfecting and Sterilizing	74	Machine Elements and Mechanisms
22	Metal Founding	75	Metallurgy
23	Chemistry	76	Metal Tools and Implements, Making
24	Buckles, Buttons, Clasps, Etc.	77	Boring and Drilling
25	Plastic Block and Earthenware Apparatus	78	Metal Forging and Welding
26	Textiles, Cloth Finishing	79	Button Making
27	Undertaking	80	Metal Rolling
28	Textiles, Manufacturing	81	Tools
29	Metal Working	82	Turning
30	Cutlery	83	Cutting
31	Dairy	84	Music
32	Dentistry	85	Driven, Headed and Screw-Threaded Fastenings
33	Geometrical Instruments	86	Ammunition and Explosive-Charge Making
34	Drying and Gas or Vapor Contact With Solids	87	Textiles, Braiding, Netting and Lace Making
35	Education	88	Optics
36	Boots, Shoes and Leggings	89	Ordnance
37	Excavating	90	Gear Cutting, Milling and Planing
38	Textiles, Ironing or Smoothing	91	Motors, Expansible Chamber Type
39	Gates	92	Expansible Chamber Devices
40	Card, Picture and Sign Exhibiting	93	Paper Manufactures
41	No Class	94	Roads and Pavements
42	Firearms	95	Photography
43	Fishing, Trapping and Vermin Destroying	96	Photographic Chemistry, Processes and Materials
44	Fuel and Igniting Devices	97	No Class
45	Furniture*	98	Ventilation
46	Amusement Devices, Toys	99	Foods and Beverages
47	Plant Husbandry	100	Presses
48	Gas, Heating and Illuminating	101	Printing
49	No Class	102	Ammunition and Explosive Devices
50	Building Structures	103	Pumps
51	Abrading	104	Railways
52	No Class	105	Railway Rolling Stock

*Class abolished July 31, 1964

Class	Title	Class	Title
106	Compositions, Coating or Plastic	162	Paper Making and Fiber Liberation
107	Bread, Pastry and Confection Making	163	Needle and Pin Making
108	Horizontally Supported Planar Surfaces	164	No Class
109	Safes, Bank Protection and Related Devices	165	Heat Exchange
110	Furnaces	166	Wells
111	Planting	167	Medicines, Poisons and Cosmetics
112	Sewing	168	Farriery
113	Sheet-Metal Ware, Making	169	Fire-Extinguishers
114	Ships	170	Motors, Fluid Current
115	Marine Propulsion	171	Unearthing Plants or Buried Objects
116	Signals and Indicators	172	Earth Working
117	Coating: Processes and Miscellaneous Products	173	Tool Driving or Impacting
118	Coating Apparatus	174	Electricity, Conductors and Insulators
119	Animal Husbandry	175	Boring or Penetrating the Earth
120	Stationery	176	Nuclear Reactions and Systems
121	No Class	177	Weighing Scales
122	Liquid Heaters and Vaporizers	178	Telegraphy
123	Internal-Combustion Engines	179	Telephony
124	Mechanical Guns and Projectors	180	Motor Vehicles
125	Stone Working	181	Acoustics
126	Stoves and Furnaces	182	Fire Escapes, Ladders, Scaffolds
127	Sugar, Starch and Carbohydrates	183	No Class
128	Surgery	184	Lubrication
129	Paper Files and Binders	185	Motors, Spring, Weight and Animal Powered
130	Threshing	186	Store Service
131	Tobacco	187	Elevators
132	Toilet	188	Brakes
133	Coin Handling	189	Metallic Building Structures
134	Cleaning and Liquid Contact With Solids	190	Baggage
135	Tents, Canopies, Umbrellas and Canes	191	Electricity, Transmission to Vehicles
136	Batteries	192	Clutches and Power-Stop Control
137	Fluid Handling	193	Conveyers, Chutes, Skids, Guides and Ways
138	Pipes and Tubular Conduits	194	Check-Controlled Apparatus
139	Textiles, Weaving	195	Chemistry, Fermentation
140	Wireworking	196	Mineral Oils: Apparatus
141*	Fluent Material Handling, With Receiver or Receiver Coacting Means	197	Typewriting Machines
142	Wood Turning	198	Conveyers, Power-Driven
143	Wood Sawing	199	Type Casting
144	Woodworking	200	Electricity, Circuit Makers and Breakers
145	Woodworking Tools	201	No Class
146	Vegetable and Meat Cutters and Comminutors	202	Distillation
147	Coopering	203	No Class
148	Metal Treatment	204	Chemistry, Electrical and Wave Energy
149	Explosive and Thermic Compositions or Charges	205	Metal Drawing
150	Cloth, Leather and Rubber Receptacles	206	Special Receptacles and Packages
151	Nut and Bolt Locks	207	Plastic Metal Working
152	Resilient Tires and Wheels	208	Mineral Oils: Processes and Products
153	Metal Bending	209	Classifying, Separating and Assorting Solids
154	No Class	210	Liquid Purification or Separation
155	No Class	211	Supports, Racks
156	Adhesive Bonding and Miscellaneous Chemical Manufacture	212	Traversing Hoists
157	Wheelwright Machines	213	Railway Draft Appliances
158	Liquid and Gaseous Fuel Burners	214	Material or Article Handling
159	Concentrating Evaporators	215	Bottles and Jars
160	Closures, Partitions and Panels, Flexible and Portable	216	No Class
161	Stock Material and Miscellaneous Articles	217	Wooden Receptacles
		218	Button, Eyelet and Rivet Setting
		219	Electric Heating
		220	Metallic Receptacles

Class	Title	Class	Title
221	Article Dispensing	279	Chucks or Sockets
222	Dispensing	280	Land Vehicles
223	Apparel Apparatus	281	Books, Strips and Leaves
224	Package and Article Carriers	282	Manifolding
225	Severing by Tearing or Breaking	283	Printed Matter
226	Advancing Material of Indeterminate Length	284	No Class
227	No Class	285	Pipe Joints or Couplings
228	No Class	286	No Class
229	Paper Receptacles	287	Rod Joints or Couplings
230	Gas Pumps and Fans	288	No Class
231	Whips and Whip Apparatus	289	Knots and Knot Tying
232	Deposit and Collection Receptacles	290	Prime-Mover Dynamo Plants
233	Centrifugal-Bowl Separators	291	Track Sanders
234	Selective Cutting (e.g., Punching)	292	Closure Fasteners
235	Registers	293	Vehicle Fenders
236	Automatic Temperature and Humidity Regulation	294	Handling, Hand and Hoist-Line Implements
237	Heating Systems	295	Railway Wheels and Axles
238	Railways, Surface Track	296	Land Vehicles, Bodies and Tops
239	Fluid Sprinkling, Spraying and Diffusing	297	Chairs and Seats
240	Illumination	298	Land Vehicles, Dumping
241	Solid Material Comminution or Disintegration	299	Mining or In Situ Disintegration of Hard Materials**
242	Winding and Reeling	300	Brush, Broom and Mop Making
243	Pneumatic Dispatch	301	Land Vehicles, Wheels and Axles
244	Aeronautics	302	Conveyers, Fluid Current
245	Wire Fabrics and Structure	303	Fluid-Pressure Brake and Analogous Systems
246	Railway Switches and Signals	304	No Class
247	No Class	305	Wheel Substitutes for Land Vehicles
248	Supports	306	Tool-Handle Fastenings
249	No Class	307	Electrical Transmission or Interconnection Systems
250	Radiant Energy	308	Machine Elements, Bearings and Guides
251	Valves and Valve Actuation	309	No Class
252	Compositions	310	Electrical Generator or Motor Structure
253	Motors, Fluid	311	No Class
254	Pushing and Pulling Implements	312	Supports, Cabinet Structures
255	No Class	313	Electric Lamp and Discharge Devices
256	Fences	314	Electric Lamp and Discharge Devices, Consumable Electrodes
257	No Class	315	Electric Lamp and Discharge Devices, Systems
258	Railway Mail Delivery	316	Electric Lamp and Discharge Devices, Manufacture and Repair
259	Agitating	317	Electricity
260	Chemistry, Carbon Compounds	318	Electricity, Motive Power Systems
261	Gas and Liquid Contact Apparatus	319	No Class
262	Mining, Quarrying and Ice Harvesting*	320	Electricity, Battery and Condenser Charging and Discharging
263	Heating	321	Electricity, Conversion Systems
264	Plastic and Non-Metallic Article Shaping or Treating: Processes	322	Electricity, Single Generator Systems
265	No Class	323	Electricity, Voltage Magnitude and Phase Control Systems
266	Metallurgical Apparatus	324	Electricity, Measuring and Testing
267	Spring Devices	325	Modulated Carrier Wave Communication Systems
268	Closure-Operators	326	No Class
269	Work Holders	327	No Class
270	Sheet-Material Associating or Folding	328	Miscellaneous Electron Space Discharge Device Systems
271	Sheet Feeding or Delivering	329	Demodulators and Detectors
272	Amusement and Exercising Devices	330	Amplifiers
273	Amusement Devices, Games	331	Oscillators
274	Sound Recording and Reproducing		
275	Scattering-Unloaders		
276	Type Setting		
277	Joint Packing		
278	Land Vehicles, Animal Draft Appliances		

*Class abolished June 29, 1964

**Class established June 29, 1964

Class	Title	Class	Title
332	Modulators	343	Communications, Radio Wave
333	Wave Transmission Lines and Networks	344	No Class
334	Tuners	345	No Class
335	No Class	346	Records
336	Inductor Devices		Designs
337	No Class		Industrial Arts
338	Electrical Resistors		Household, Personal and Fine Arts
339	Electrical Connectors	351	Optics, Eye Examining, Vision Testing and Correcting*
340	Communications, Electrical	352	Optics, Motion Pictures**
341	No Class		
342	No Class		

CLASS TITLES ARRANGED IN ALPHABETICAL ORDER

Class	Title	Class	Title
51	Abrading	218	Button, Eyelet and Rivet Setting
181	Acoustics	79	Button Making
156	Adhesive Bonding and Miscellaneous Chemical Manufacture	40	Card, Picture and Sign Exhibiting
226	Advancing Material of Indeterminate-Length	233	Centrifugal-Bowl Separators
244	Aeronautics	59	Chain, Staple and Horseshoe Making
259	Agitating	297	Chairs and Seats
86	Ammunition and Explosive-Charge Making	194	Check-Controlled Apparatus
102	Ammunition and Explosive Devices	23	Chemistry
330	Amplifiers	260	Chemistry, Carbon Compounds
272	Amusement and Exercising Devices	204	Chemistry, Electrical and Wave Energy
273	Amusement Devices, Games	195	Chemistry, Fermentation
46	Amusement Devices, Toys	71	Chemistry, Fertilizers
119	Animal Husbandry	279	Chucks or Sockets
2	Apparel	209	Classifying, Separating and Assorting Solids
223	Apparel Apparatus	134	Cleaning and Liquid Contact With Solids
221	Article Dispensing	292	Closure Fasteners
3	Artificial Body Members	268	Closure-Operators
236	Automatic Temperature and Humidity Regulation	160	Closures, Partitions and Panels, Flexible and Portable
190	Baggage	150	Cloth, Leather and Rubber Receptacles
4	Baths, Closets, Sinks and Spittoons	192	Clutches and Power-Stop Control
136	Batteries	118	Coating Apparatus
5	Beds	117	Coating: Processes and Miscellaneous Products
6	Bee Culture	133	Coin Handling
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	340	Communications, Electrical
9	Boats, Buoys and Aquatic Devices	343	Communications, Radio Wave
10	Bolt, Nail, Nut, Rivet and Screw Making	252	Compositions
11	Books, Making	106	Compositions, Coating or Plastic
281	Books, Strips and Leaves	7	Compound Tools
12	Boot and Shoe Making	159	Concentrating Evaporators
36	Boots, Shoes and Leggings	193	Conveyers, Chutes, Skids, Guides and Ways
77	Boring and Drilling	302	Conveyers, Fluid Current
175	Boring or Penetrating the Earth	198	Conveyers, Power-Driven
215	Bottles and Jars	147	Coopering
188	Brakes	30	Cutlery
107	Bread, Pastry and Confection Making	83	Cutting
14	Bridges	31	Dairy
300	Brush, Broom and Mop Making	329	Demodulators and Detectors
15	Brushing, Scrubbing and General Cleaning	32	Dentistry
24	Buckles, Buttons, Clasps, Etc.	232	Deposit and Collection Receptacles
50	Building Structures	222	Dispensing
17	Butchering	202	Distillation
		85	Driven, Headed and Screw-Threaded Fastenings

*Class established Nov. 25, 1964
 **Class established Aug. 28, 1964

Class	Title	Class	Title
34	Drying and Gas or Vapor Contact With Solids	108	Horizontally Supported Planar Surfaces
172	Earth Working	58	Horology
35	Education	61	Hydraulic and Earth Engineering
13	Electric Furnaces	67	Illuminating Burners
219	Electric Heating	240	Illumination
313	Electric Lamp and Discharge Devices	336	Inductor Devices
314	Electric Lamp and Discharge Devices, Consumable Electrodes	123	Internal-Combustion Engines
316	Electric Lamp and Discharge Devices, Manufacture and Repair	63	Jewelry
315	Electric Lamp and Discharge Devices, Systems	277	Joint Packing
339	Electrical Connectors	289	Knots and Knot Tying
310	Electrical Generator or Motor Structure	280	Land Vehicles
338	Electrical Resistors	278	Land Vehicles, Animal Draft Appliances
307	Electrical Transmission or Interconnection Systems	296	Land Vehicles, Bodies and Tops
317	Electricity	298	Land Vehicles, Dumping
320	Electricity, Battery and Condenser Charging and Discharging	301	Land Vehicles, Wheels and Axles
200	Electricity, Circuit Makers and Breakers	69	Leather Manufactures
174	Electricity, Conductors and Insulators	158	Liquid and Gaseous Fuel Burners
321	Electricity, Conversion Systems	122	Liquid Heaters and Vaporizers
324	Electricity, Measuring and Testing	210	Liquid Purification or Separation
318	Electricity, Motive Power Systems	70	Locks
322	Electricity, Single Generator Systems	184	Lubrication
191	Electricity, Transmission to Vehicles	74	Machine Elements and Mechanisms
323	Electricity, Voltage Magnitude and Phase Control Systems	308	Machine Elements, Bearings and Guides
187	Elevators	64	Machine Elements, Shafting and Flexible Shaft Couplings
37	Excavating	282	Manifolding
92	Expansible Chamber Devices	115	Marine Propulsion
149	Explosive and Thermic Compositions or Charges	214	Material or Article Handling
168	Farriery	73	Measuring and Testing
256	Fences	124	Mechanical Guns and Projectors
182	Fire Escapes, Ladders, Scaffolds	167	Medicines, Poisons and Cosmetics
169	Fire-Extinguishers	153	Metal Bending
42	Firearms	205	Metal Drawing
43	Fishing, Trapping and Vermin Destroying	78	Metal Forging and Welding
141	Fluent Material Handling, With Receiver or Receiver Coacting Means	22	Metal Founding
137	Fluid Handling	80	Metal Rolling
303	Fluid-Pressure Brake and Analogous Systems	76	Metal Tools and Implements, Making
239	Fluid Sprinkling, Spraying and Diffusing	148	Metal Treatment
99	Foods and Beverages	29	Metal Working
44	Fuel and Igniting Devices	189	Metallic Building Structures
110	Furnaces	220	Metallic Receptacles
45	Furniture*	266	Metallurgical Apparatus
261	Gas and Liquid Contact Apparatus	75	Metallurgy
48	Gas, Heating and Illuminating	196	Mineral Oils: Apparatus
230	Gas Pumps and Fans	208	Mineral Oils: Processes and Products
55	Gas Separation	262	Mining, Quarrying and Ice Harvesting*
39	Gates	299	Mining or In Situ Disintegration of Hard Materials**
90	Gear Cutting, Milling and Planing	328	Miscellaneous Electron Space Discharge Device Systems
33	Geometrical Instruments	16	Miscellaneous Hardware
65	Glass Manufacturing	325	Modulated Carrier Wave Communication Systems
294	Handling, Hand and Hoist-Line Implements	332	Modulators
54	Harness	180	Motor Vehicles
56	Harvesters	91	Motors, Expansible Chamber Type
165	Heat Exchange	253	Motors, Fluid
263	Heating	170	Motors, Fluid Current
237	Heating Systems	185	Motors, Spring, Weight and Animal Powered
		84	Music
		1	Nailing, Stapling and Clip Clenching

*Class abolished during 1964
 **Class established during 1964

Class	Title	Class	Title
163	Needle and Pin Making	241	Solid Material Comminution or Disintegration
176	Nuclear Reactions and Systems	274	Sound Recording and Reproducing
151	Nut and Bolt Locks	206	Special Receptacles and Packages
88	Optics	267	Spring Devices
351	Optics, Eye Examining, Vision Testing and Correcting**	120	Stationery
352	Optics, Motion Pictures**	161	Stock Material and Miscellaneous Articles
89	Ordnance	125	Stone Working
331	Oscillators	186	Store Service
224	Package and Article Carriers	126	Stoves and Furnaces
53	Package Making	127	Sugar, Starch and Carbohydrates
129	Paper Files and Binders	248	Supports
162	Paper Making and Fiber Liberation	312	Supports, Cabinet Structures
93	Paper Manufactures	211	Supports, Racks
229	Paper Receptacles	128	Surgery
96	Photographic Chemistry, Processes and Materials	178	Telegraphy
95	Photography	179	Telephony
285	Pipe Joints or Couplings	135	Tents, Canopies, Umbrellas and Canes
138	Pipes and Tubular Conduits	87	Textiles, Braiding, Netting and Lace Making
47	Plant Husbandry	26	Textiles, Cloth Finishing
111	Planting	19	Textiles, Fiber Preparation
	Plants	68	Textiles, Fluid Treating Apparatus
25	Plastic Block and Earthenware Apparatus	38	Textiles, Ironing or Smoothing
264	Plastic and Non-Metallic Article Shaping or Treating: Processes	66	Textiles, Knitting
207	Plastic Metal Working	28	Textiles, Manufacturing
18	Plastics	57	Textiles, Spinning, Twisting and Twining
243	Pneumatic Dispatch	139	Textiles, Weaving
60	Power Plants	130	Threshing
21	Preserving, Disinfecting and Sterilizing	131	Tobacco
100	Presses	132	Toilet
290	Prime-Mover Dynamo Plants	173	Tool Driving or Impacting
283	Printed Matter	306	Tool-Handle Fastenings
101	Printing	81	Tools
103	Pumps	291	Track Sanders
254	Pushing and Pulling Implements	212	Traversing Hoists
250	Radiant Energy	334	Tuners
213	Railway Draft Appliances	82	Turning
258	Railway Mail Delivery	199	Type Casting
105	Railway Rolling Stock	276	Type Setting
246	Railway Switches and Signals	197	Typewriting Machines
295	Railway Wheels and Axles	27	Undertaking
104	Railways	171	Unearthing Plants or Buried Objects
238	Railways, Surface Track	251	Valves and Valve Actuation
346	Recorders	146	Vegetable and Meat Cutters and Comminutors
62	Refrigeration	293	Vehicle Fenders
235	Registers	98	Ventilation
152	Resilient Tires and Wheels	333	Wave Transmission Lines and Networks
94	Roads and Pavements	177	Weighing Scales
287	Rod Joints or Couplings	166	Wells
109	Safes, Bank Protection and Related Devices	305	Wheel Substitutes for Land Vehicles
275	Scattering-Unloaders	157	Wheelwright Machines
234	Selective Cutting (e.g., Punching)	231	Whips and Whip Apparatus
225	Severing by Tearing or Breaking	242	Winding and Reeling
112	Sewing	245	Wire Fabrics and Structure
271	Sheet Feeding or Delivering	140	Wireworking
270	Sheet-Material Associating or Folding	143	Wood Sawing
113	Sheet-Metal Ware, Making	142	Wood Turning
114	Ships	20	Wooden Buildings
116	Signals and Indicators	217	Wooden Receptacles
		144	Woodworking

**Class established during 1964

Class	Title	Class	Title
145	Woodworking Tools	Classes Established During 1964	
269	Work Holders	299	Mining or In Situ Disintegration of Hard Materials
Classes Abolished During 1964		351	Optics, Eye Examining, Vision Testing and Correcting
45	Furniture	352	Optics, Motion Pictures
262	Mining, Quarrying and Ice Harvesting		

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 Rio Piedras, University of Puerto Rico General Library

RHODE ISLAND

Kingston, U. of Rhode Island
 Providence, Public Library

SOUTH CAROLINA

Clemson, Clemson College
 Columbia, U. of South Carolina McKissick Memorial Library

SOUTH DAKOTA

Brookings, Lincoln Memorial Library, South Dakota State University
 Rapid City, Public Library
 Vermillion, U. of South Dakota

TENNESSEE

Chattanooga, Public Library
 Jefferson City, Maples Library, Carson-Newman College
 Johnson City, East Tennessee State University

TENNESSEE—Continued

Knoxville, U. of Tennessee
 Memphis, Cossitt Reference Library
 Nashville, Joint University Libraries
 Nashville, Public Library
 Nashville, Tennessee State Library and Archives

TEXAS

Abilene, Hardin Simmons U.
 Austin, Texas State Library
 Austin, U. of Texas
 Beaumont, Lamar State College of Technology
 College Station, Texas A. & M. University
 Dallas, Public Library
 Dallas, Southern Methodist U.
 Denton, North Texas State U.
 Edinburg, Pan American College
 El Paso, Public Library
 Fort Worth, Public Library
 Fort Worth, Texas Christian U., Mary Coats Burnett Library
 Galveston, Rosenberg Library
 Houston, Public Library
 Kingsville, Texas College of Arts & Industries
 Longview, Nicholson Memorial Library
 Lubbock, Texas Technological College
 San Antonio, Public Library
 San Antonio, St. Mary's University
 San Antonio, Trinity University
 San Marcos, Southwest Texas State College
 Waco, Baylor University
 Wichita Falls, Midwestern University

UTAH

Logan, Utah State U. of Agriculture & Applied Science
 Provo, Brigham Young U.
 Salt Lake City, U. of Utah

VERMONT

Northfield, Norwich University

VIRGINIA

Blacksburg, Virginia Polytechnic Institute
 Emory, Emory and Henry College
 Norfolk, Public Library
 Richmond, Virginia State Library
 Roanoke, Public Library
 University, University of Virginia

WASHINGTON

Ellensburg, Central Washington State College
 Olympia, Washington State Library
 Pullman, Washington State U.
 Seattle, Public Library
 Seattle, U. of Washington
 Spokane, Public Library
 Tacoma, Public Library
 Vancouver, Fort Vancouver Regional Library
 Walla Walla, Whitman College

WEST VIRGINIA

Athens, Concord College Library
 Huntington, Marshall University
 Institute, West Virginia State College
 Morgantown, West Virginia U.

WISCONSIN

Appleton, Lawrence College
 Beloit, Beloit College Libraries
 La Crosse, Public Library
 Madison, State Historical Society
 Madison, U. of Wisconsin
 Milwaukee, Public Library
 Oshkosh, Wisconsin State College
 Racine, Public Library
 Stevens Point, Wisconsin State College

WYOMING

Cheyenne, Wyoming State Library
 Laramie, U. of Wyoming

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836-1964

Year	The number of the first patent issued in each calendar year ¹				The number of patents issued in each calendar year ²			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1836	1	(3)			103	6		
1837	110	(3)			426	10		
1838	546	1			514	6		
1839	1,106	7			404	13		
1840	1,465	20			458	10		
1841	1,923	30			490	6		
1842	2,413	36			488	13	1	
1843	2,901	49	1		493	11	14	
1844	3,395	60	15		478	7	12	
1845	3,873	67	27		473	11	17	
1846	4,348	78	44		566	13	59	
1847	4,914	91	103		495	14	60	
1848	5,409	103	163		583	23	46	
1849	5,993	128	209		984	30	49	
1850	6,981	158	258		883	26	83	
1851	7,865	184	341		752	25	90	
1852	8,622	209	431		885	20	109	
1853	9,512	229	540		844	29	86	
1854	10,358	258	626		1,755	28	57	
1855	12,117	286	683		1,881	51	70	
1856	14,009	337	753		2,302	83	107	
1857	16,324	420	860		2,674	97	113	
1858	19,010	517	973		3,455	126	102	
1859	22,477	643	1,075		4,160	231	107	
1860	26,642	874	1,183		4,357	232	183	
1861	31,005	1,106	1,366		3,020	147	142	
1862	34,045	1,253	1,508		3,214	116	195	
1863	37,266	1,369	1,703		3,773	227	176	
1864	41,047	1,596	1,879		4,630	248	139	
1865	45,685	1,844	2,018		6,088	296	221	
1866	51,784	2,140	2,239		8,863	290	294	
1867	60,658	2,430	2,533		12,277	400	325	
1868	72,959	2,830	2,858		12,526	420	445	
1869	85,503	3,250	3,304		12,931	534	506	
1870	98,460	3,784	3,810		12,137	439	737	
1871	110,617	4,223	4,547		11,659	464	903	
1872	122,304	4,687	5,452		12,180	529	884	
1873	134,504	5,216	6,336		11,616	501	747	
1874	146,120	5,717	7,083		12,230	483	886	
1875	158,350	6,200	7,969		13,291	631	915	
1876	171,641	6,831	8,884		14,169	621	802	
1877	185,813	7,452	9,686		12,920	568	699	
1878	198,733	8,020	10,385		12,345	509	590	
1879	211,078	8,529	10,975		12,125	488	591	
1880	223,211	9,017	11,567		12,903	506	514	
1881	236,137	9,523	12,082		15,500	471	565	
1882	251,685	9,994	12,647		18,091	271	858	
1883	269,820	10,265	13,508		21,162	167	1,017	
1884	291,016	10,432	14,528		19,118	116	1,150	
1885	310,163	10,548	15,678		23,285	129	769	
1886	333,494	10,677	16,451		21,767	116	594	
1887	355,291	10,793	17,046		20,403	99	948	
1888	375,720	10,892	17,995		19,551	86	832	
1889	395,305	10,978	18,830		23,324	75	723	

See footnotes at end of table.

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836-1964—Continued

Year	The number of the first patent issued in each calendar year ¹				The number of patents issued in each calendar year ²			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1890	418, 665	11, 053	19, 553	-----	25, 313	84	886	-----
1891	443, 987	11, 137	20, 439	-----	22, 312	80	835	-----
1892	466, 315	11, 217	21, 275	-----	22, 647	81	816	-----
1893	488, 976	11, 298	22, 092	-----	22, 750	99	899	-----
1894	511, 744	11, 397	22, 994	-----	19, 855	64	927	-----
1895	531, 619	11, 461	23, 922	-----	20, 856	59	1, 108	-----
1896	552, 502	11, 520	25, 037	-----	21, 822	61	1, 441	-----
1897	574, 369	11, 581	26, 482	-----	22, 067	65	1, 620	-----
1898	596, 467	11, 646	28, 113	-----	20, 377	60	1, 799	-----
1899	616, 871	11, 706	29, 916	-----	23, 278	92	2, 137	-----
1900	640, 167	11, 798	32, 055	-----	24, 644	81	1, 754	-----
1901	664, 827	11, 879	33, 813	-----	25, 546	81	1, 729	-----
1902	690, 385	11, 960	35, 547	-----	27, 119	110	639	-----
1903	717, 521	12, 070	36, 187	-----	31, 029	117	536	-----
1904	748, 567	12, 189	36, 723	-----	30, 258	110	553	-----
1905	778, 834	12, 299	37, 280	-----	29, 775	129	486	-----
1906	808, 618	12, 428	37, 766	-----	31, 170	159	620	-----
1907	839, 799	12, 587	38, 391	-----	35, 859	151	589	-----
1908	875, 679	12, 738	38, 980	-----	32, 735	168	755	-----
1909	908, 436	12, 906	39, 737	-----	36, 561	160	679	-----
1910	945, 010	13, 066	40, 424	-----	35, 141	123	636	-----
1911	980, 178	13, 189	41, 063	-----	32, 856	157	1, 004	-----
1912	1, 013, 095	13, 346	42, 073	-----	36, 198	158	1, 341	-----
1913	1, 049, 326	13, 504	43, 415	-----	33, 917	164	1, 677	-----
1914	1, 083, 267	13, 668	45, 098	-----	39, 892	190	1, 711	-----
1915	1, 123, 212	13, 858	46, 813	-----	43, 118	182	1, 538	-----
1916	1, 166, 419	14, 040	48, 358	-----	43, 892	198	1, 745	-----
1917	1, 210, 389	14, 238	50, 117	-----	40, 935	179	1, 505	-----
1918	1, 251, 458	14, 417	51, 629	-----	38, 452	165	1, 206	-----
1919	1, 290, 027	14, 582	52, 836	-----	36, 797	203	1, 521	-----
1920	1, 326, 899	14, 785	54, 359	-----	37, 060	233	2, 481	-----
1921	1, 364, 063	15, 018	56, 844	-----	37, 798	239	3, 265	-----
1922	1, 401, 948	15, 257	60, 121	-----	38, 369	256	1, 609	-----
1923	1, 440, 362	15, 513	61, 748	-----	38, 616	226	1, 927	-----
1924	1, 478, 996	15, 739	63, 675	-----	42, 574	235	2, 670	-----
1925	1, 521, 590	15, 974	66, 346	-----	46, 432	266	2, 819	-----
1926	1, 568, 040	16, 240	69, 170	-----	44, 733	275	2, 597	-----
1927	1, 612, 700	16, 515	71, 772	-----	41, 717	326	2, 387	-----
1928	1, 654, 521	16, 841	74, 159	-----	42, 357	335	3, 182	-----
1929	1, 696, 897	17, 176	77, 347	-----	45, 267	374	2, 905	-----
1930	1, 742, 181	17, 550	80, 254	-----	45, 226	367	2, 710	-----
1931	1, 787, 424	17, 917	82, 966	1	51, 756	395	2, 935	5
1932	1, 839, 190	18, 312	85, 903	6	53, 458	393	2, 942	46
1933	1, 892, 663	18, 705	88, 847	52	48, 774	333	2, 411	33
1934	1, 941, 449	19, 038	91, 258	85	44, 420	371	2, 919	32
1935	1, 985, 878	19, 409	94, 179	117	40, 618	395	3, 864	45
1936	2, 026, 516	19, 804	98, 045	162	39, 782	422	4, 556	49
1937	2, 066, 309	20, 226	102, 601	211	37, 683	384	5, 136	55
1938	2, 104, 004	20, 610	107, 738	266	38, 061	349	5, 026	41
1939	2, 142, 080	20, 959	112, 765	307	43, 073	352	5, 592	45
1940	2, 185, 170	21, 311	118, 358	352	42, 238	372	6, 145	85
1941	2, 227, 418	21, 683	124, 503	437	41, 109	309	6, 486	62
1942	2, 268, 540	21, 992	130, 989	499	38, 449	250	3, 728	65
1943	2, 307, 007	22, 242	134, 717	564	31, 054	173	2, 228	47
1944	2, 338, 081	22, 415	136, 946	611	28, 053	170	2, 914	38
1945	2, 366, 154	22, 585	139, 862	649	25, 695	121	3, 524	17
1946	2, 391, 856	22, 706	143, 386	666	21, 803	121	2, 778	56
1947	2, 413, 675	22, 827	146, 165	722	20, 139	130	2, 102	52
1948	2, 433, 824	22, 957	148, 267	774	23, 963	111	3, 968	44
1949	2, 457, 797	23, 068	152, 235	818	35, 131	118	4, 450	93

See footnotes at end of table.

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836-1964—Continued

Year	The number of the first patent issued in each calendar year ¹				The number of patents issued in each calendar year ²			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1950	2, 492, 944	23, 186	156, 686	911	43, 040	129	4, 718	89
1951	2, 536, 016	23, 315	161, 404	1, 001	44, 326	134	4, 163	58
1952	2, 580, 379	23, 449	165, 568	1, 059	43, 616	163	2, 959	101
1953	2, 624, 046	23, 612	168, 527	1, 160	40, 468	151	2, 713	78
1954	2, 664, 562	23, 763	171, 241	1, 238	33, 809	155	2, 536	101
1955	2, 698, 434	23, 918	173, 777	1, 339	30, 432	187	2, 713	103
1956	2, 728, 913	24, 105	176, 490	1, 442	46, 817	158	2, 977	101
1957	2, 775, 762	24, 263	179, 467	1, 543	42, 744	150	2, 362	129
1958	2, 818, 567	24, 413	181, 829	1, 672	48, 330	170	2, 374	120
1959	2, 866, 973	24, 584	184, 204	1, 792	52, 408	177	2, 768	101
1960	2, 919, 443	24, 761	186, 973	1, 893	47, 170	157	2, 543	116
1961	2, 966, 681	24, 918	189, 516	2, 009	48, 368	189	2, 487	108
1962	3, 015, 103	25, 107	192, 004	2, 117	55, 691	202	2, 300	91
1963	3, 070, 801	25, 309	194, 304	2, 208	45, 686	198	2, 695	129
1964	3, 116, 487	25, 507	197, 269	2, 337	47, 378	200	2, 686	128
1965	3, 163, 865	25, 707	199, 955	2, 465				

¹ The patent numbering system began with a patent issued on July 13, 1836 under the Patent Act adopted July 4, 1836. Up to this time, a total of 9,957 patents had been issued.

² The number of patents issued during a year may be fewer than the number derived by subtracting the number of the first patent issued in one year from the number of the first patent issued in the next year. Some numbers in the series may not be used. This results when an application scheduled to be patented and to which a patent number is assigned is withdrawn for some reason at a time when it is too late to reassign that number.

³ Not separately numbered until 1838.

LIST OF PATENT, DESIGN, PLANT PATENT, AND REISSUE
NUMBERS APPEARING IN THE INDIVIDUAL ISSUES
OF THE OFFICIAL GAZETTE FOR 1964

Issue of	Vol.	No.	First Number in Issue			
			Patents	Designs	Plant Patents	Reissues
Jan. 7.....	798	1	3, 116, 487	197, 269	2, 337	25, 507
Jan. 14.....		2	3, 117, 321	197, 326	2, 340	25, 512
Jan. 21.....		3	3, 118, 146	197, 371	2, 344	25, 514
Jan. 28.....		4	3, 119, 112	197, 397	None	25, 516
Feb. 4.....	799	1	3, 120, 002	197, 425	2, 350	25, 518
Feb. 11.....		2	3, 120, 664	197, 456	2, 360	25, 520
Feb. 18.....		3	3, 121, 233	197, 502	2, 365	25, 522
Feb. 25.....		4	3, 121, 875	197, 550	2, 367	25, 523
Mar. 3.....	800	1	3, 122, 749	197, 590	2, 368	25, 526
Mar. 10.....		2	3, 123, 830	197, 636	2, 373	25, 531
Mar. 17.....		3	3, 124, 805	197, 691	2, 376	25, 537
Mar. 24.....		4	3, 125, 761	197, 758	2, 381	25, 539
Mar. 31.....		5	3, 126, 549	197, 835	2, 388	25, 543
Apr. 7.....	801	1	3, 127, 614	197, 879	None	25, 547
Apr. 14.....		2	3, 128, 468	197, 944	2, 389	25, 552
Apr. 21.....		3	3, 129, 429	198, 014	2, 391	25, 556
Apr. 28.....		4	3, 130, 413	198, 071	2, 393	25, 562
May 5.....	802	1	3, 131, 397	198, 119	2, 399	25, 567
May 12.....		2	3, 132, 343	198, 154	2, 400	25, 572
May 19.....		3	3, 133, 287	198, 198	2, 404	25, 578
May 26.....		4	3, 134, 105	198, 254	2, 405	25, 583
June 2.....	803	1	3, 134, 981	198, 305	2, 407	25, 586
June 9.....		2	3, 135, 961	198, 359	2, 410	25, 590
June 16.....		3	3, 137, 004	198, 429	2, 411	25, 597
June 23.....		4	3, 137, 858	198, 490	2, 412	25, 605
June 30.....		5	3, 138, 801	198, 521	2, 415	25, 606
July 7.....	804	1	3, 139, 622	198, 560	2, 416	25, 611
July 14.....		2	3, 140, 492	198, 616	2, 422	25, 616
July 21.....		3	3, 141, 171	198, 663	2, 427	25, 620
July 28.....		4	3, 142, 066	198, 740	2, 428	25, 622
Aug. 4.....	805	1	3, 142, 841	198, 776	2, 431	25, 627
Aug. 11.....		2	3, 143, 739	198, 831	2, 433	None
Aug. 18.....		3	3, 144, 653	198, 896	2, 437	25, 631
Aug. 25.....		4	3, 145, 387	198, 968	2, 439	25, 633
Sept. 1.....	806	1	3, 146, 459	199, 020	None	25, 634
Sept. 8.....		2	3, 147, 484	199, 047	2, 444	25, 637
Sept. 15.....		3	3, 148, 373	199, 114	2, 445	25, 640
Sept. 22.....		4	3, 149, 339	199, 174	2, 446	25, 643
Sept. 29.....		5	3, 150, 378	199, 231	2, 448	25, 648
Oct. 6.....	807	1	3, 151, 329	199, 298	None	25, 650
Oct. 13.....		2	3, 152, 334	199, 349	2, 449	25, 656
Oct. 20.....		3	3, 153, 242	199, 387	2, 450	25, 664
Oct. 27.....		4	3, 153, 790	199, 427	None	25, 667
Nov. 3.....	808	1	3, 154, 787	199, 483	None	25, 673
Nov. 10.....		2	3, 155, 980	199, 514	2, 451	25, 676
Nov. 17.....		3	3, 156, 920	199, 557	2, 452	25, 685
Nov. 24.....		4	3, 157, 884	199, 611	2, 454	25, 689
Dec. 1.....	809	1	3, 158, 867	199, 661	2, 455	25, 691
Dec. 8.....		2	3, 159, 843	199, 725	None	25, 695
Dec. 15.....		3	3, 160, 890	199, 776	2, 462	25, 697
Dec. 22.....		4	3, 161, 886	199, 834	None	25, 701
Dec. 29.....		5	3, 162, 861	199, 891	None	25, 705
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